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**Лабораторная работа №5-7 по курсу**

**«Операционные системы»**

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**Постановка задачи**

**Вариант 40.**

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 subcommand

subcommand – одна из трех команд: start, stop, time.

start – запустить таймер

stop – остановить таймер

time – показать время локального таймера в миллисекундах

* **Команда проверки**

Формат команды: ping id

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

ошибку: «Error: Not found»

**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.

• **pid\_t getppid(void);** – возвращает идентификатор родительского процесса.

Операции с файлами и I/O:

• **std::ofstream fout(filename, std::ios\_base::app);** – открывает файл для записи в режиме добавления (append).

• **std::getline(std::istream&, std::string&);** – считывает строку из входного потока.

• **std::this\_thread::sleep\_for(std::chrono::milliseconds(time));** – приостанавливает выполнение текущего потока на заданное количество миллисекунд.

Операции ZeroMQ:

• **zmq::context\_t context;** – создает новый контекст ZeroMQ.

• **zmq::socket\_t socket(context, type);** – создает сокет ZeroMQ.

• **int zmq\_bind(zmq::socket\_t \*socket, int port);** – привязывает сокет к указанному порту.

• **int zmq\_connect(zmq::socket\_t \*socket, int port);** – подключает сокет к другому узлу через указанный порт.

• **int zmq\_close(zmq::socket\_t \*socket);** – закрывает сокет ZeroMQ.

• **int zmq\_ctx\_destroy(void\* context);** – завершает контекст ZeroMQ.

• **zmq::message\_t message(size);** – инициализирует сообщение ZeroMQ заданного размера.

• **socket->send(message);** – отправляет сообщение через ZeroMQ.

• **socket->recv(&message, 0);** – получает сообщение через ZeroMQ.

**Алгоритм решения**

Для реализации потребуется как минимум два исполняемых файла: **управляющий узел** (client.cpp) и **вычислительный узел** (worker.cpp). Также создадим **отдельные файлы** для реализации **класса узла (node.h) и сетевых функций (net\_func.h)**, которые обеспечивают связь между узлами через **ZeroMQ**

**Связь между узлами**

Очередь сообщений будет реализована с помощью **библиотеки ZeroMQ**.  
Сообщения передаются через **сокеты**.

* **Контекст ZeroMQ (zmq::context\_t)** – основной объект, который управляет всеми ресурсами для работы с сокетами. Контекст управляет потоками, соединениями и другими низкоуровневыми деталями.
* **Сокеты ZeroMQ (zmq::socket\_t)** – используются для отправки и получения сообщений между узлами. В программе используются сокеты типов ZMQ\_REQ (запрос) и ZMQ\_REP (ответ).
* **Принцип работы REQ/REP** – управляющий узел отправляет запрос (REQ), а вычислительный узел отвечает (REP).

**Создание вычислительных узлов**

Для создания нового узла используется метод **Create\_child()** в node.h.

1. **Управляющий узел вызывает команду create id parent**.
2. **Вызывается fork()**, создавая новый процесс.
3. **В дочернем процессе вызывается execl()**, который заменяет текущий процесс новым (worker).
4. **Новый узел подключается к родителю через ZeroMQ (zmq\_connect())**

**Работа вычислительных узлов**

Каждый узел (worker.cpp):

* **Хранит свой ID, PID, родительский узел и список дочерних узлов.**
* **Слушает входящие команды через ZeroMQ (zmq\_recv()).**
* **Обрабатывает команды (exec, ping, remove).**
* **Передает команды дальше по дереву, если не может выполнить их сам.**

**Передача сообщений ZeroMQ**

Создадим **неймспейс my\_net** (net\_func.h) для работы с ZeroMQ.

* **Функция send\_message(socket, msg)** – отправляет сообщение через сокет.
* **Функция reseave(socket)** – получает сообщение через сокет и возвращает его в основную программу.

**Обработка команд**

1. **Команда create id parent**
   * Создает новый процесс (fork() + execl()).
   * Привязывает новый узел к родителю через zmq\_connect().
2. **Команда exec id subcommand**
   * Узел ищет id.
   * Если узел найден, выполняет команду (start, stop, time).
   * Если узел не найден, пересылает команду дочерним узлам.
3. **Команда ping id**
   * Проверяет доступность узла.
   * Если узел не найден, возвращает Error: Not found.
4. **Команда remove id**
   * Удаляет узел и его потомков.
   * Закрывает все сокеты (zmq\_close() + zmq\_ctx\_destroy()).

**Асинхронность и обработка сообщений**

Так как программа работает в **асинхронном режиме**, необходимо:

* **Не ждать моментального ответа** от узлов.
* **Создавать "ожидающие" сообщения** в управляющем узле.
* **Проверять входящие сообщения в цикле**, сравнивая их ID с ожидаемыми

**Структуры данных**

* **Дерево узлов (std::unordered\_map<int, zmq::socket\_t \*> children)** – хранит связи между узлами.
* **Список узлов (std::set<int> all\_nodes)** – содержит ID всех активных узлов.
* **Карта портов (std::unordered\_map<int, int> children\_port)** – хранит порты, используемые узлами.

Для быстрого поиска узлов используется std::map<int, zmq::socket\_t \*>.

**Код программы**

**client.cpp**

|  |
| --- |
| #include "node.h"  #include "net\_func.h"  #include "set"  #include <signal.h>  #include <chrono>  #include <thread>  #include <mutex>  #include <atomic>  #include <map>  static std::mutex nodes\_mutex;  int main() {      std::set<int> all\_nodes;      std::string prog\_path = "./worker";      Node me(-1);      all\_nodes.insert(-1);        std::string command;      while (std::cin >> command) {          if (command == "create") {              int id\_child, id\_parent;              std::cin >> id\_child >> id\_parent;              if (all\_nodes.find(id\_child) != all\_nodes.end()) {                  std::cout << "Error: Already exists" << std::endl;              } else if (all\_nodes.find(id\_parent) == all\_nodes.end()) {                  std::cout << "Error: Parent not found" << std::endl;              } else if (id\_parent == me.id) {                  std::string ans = me.Create\_child(id\_child, prog\_path);                  std::cout << ans << std::endl;                  all\_nodes.insert(id\_child);              } else {                  std::string str = "create " + std::to\_string(id\_child);                  std::string ans = me.Send(str, id\_parent);                  std::cout << ans << std::endl;                  all\_nodes.insert(id\_child);              }          } else if (command == "ping") {              int id\_child;              std::cin >> id\_child;              if (all\_nodes.find(id\_child) == all\_nodes.end()) {                  std::cout << "Error: Not found" << std::endl;              } else if (me.children.find(id\_child) != me.children.end()) {                  std::string ans = me.Ping\_child(id\_child);                  std::cout << ans << std::endl;              } else {                  std::string str = "ping " + std::to\_string(id\_child);                  std::string ans = me.Send(str, id\_child);                  if (ans == "Error: not find") {                      ans = "Ok: 0";                  }                  std::cout << ans << std::endl;              }          } else if (command == "exec") {              int id;              std::string cmd;              std::cin >> id >> cmd;              std::string msg = "exec " + cmd;                if (all\_nodes.find(id) == all\_nodes.end()) {                  std::cout << "Error: Not found" << std::endl;              } else {                  std::string ping\_result = me.Send("ping " + std::to\_string(id), id);                  if (ping\_result == "Ok: 0" || ping\_result == "Error: not find") {                      std::cout << "Error: Node is unavailable" << std::endl;                      all\_nodes.erase(id);                  } else {                      std::string ans = me.Send(msg, id);                      std::cout << ans << std::endl;                  }              }          } else if (command == "remove") {              int id;              std::cin >> id;              std::string msg = "remove";              if (all\_nodes.find(id) == all\_nodes.end()) {                  std::cout << "Error: Not found" << std::endl;              } else {                  std::string ans = me.Send(msg, id);                  if (ans != "Error: not find") {                      std::istringstream ids(ans);                      int tmp;                      while (ids >> tmp) {                          all\_nodes.erase(tmp);                      }                      ans = "Ok";                      if (me.children.find(id) != me.children.end()) {                          my\_net::unbind(me.children[id], me.children\_port[id]);                          me.children[id]->close();                          me.children.erase(id);                          me.children\_port.erase(id);                      }                  }                  std::cout << ans << std::endl;              }          }      }      me.Remove();      return 0;  } |

**net\_func.h**

|  |
| --- |
| #pragma once  #include <iostream>  #include <zmq.hpp>  #include <sstream>  #include <string>  namespace my\_net {  #define MY\_PORT 4040  #define MY\_IP "tcp://127.0.0.1:"      int bind(zmq::socket\_t \*socket, int id) {          int port = MY\_PORT + id;          while (true) {              std::string adress = MY\_IP + std::to\_string(port);              try {                  socket->bind(adress);                  break;              } catch (...) {                  port++;              }          }          return port;      }      void connect(zmq::socket\_t \*socket, int port) {          std::string adress = MY\_IP + std::to\_string(port);          socket->connect(adress);      }      void unbind(zmq::socket\_t \*socket, int port) {          std::string adress = MY\_IP + std::to\_string(port);          socket->unbind(adress);      }      void disconnect(zmq::socket\_t \*socket, int port) {          std::string adress = MY\_IP + std::to\_string(port);          socket->disconnect(adress);      }      void send\_message(zmq::socket\_t \*socket, const std::string msg) {          zmq::message\_t message(msg.size());          memcpy(message.data(), msg.c\_str(), msg.size());          try {              socket->send(message);          } catch (...) {}      }      std::string reseave(zmq::socket\_t \*socket) {          zmq::message\_t message;          bool success = true;          try {              socket->recv(&message, 0);          } catch (...) {              success = false;          }          if (!success || message.size() == 0) {              throw -1;          }          std::string str(static\_cast<char \*>(message.data()), message.size());          return str;      }  } |

**node.h**

|  |
| --- |
| #include <iostream>  #include "net\_func.h"  #include <sstream>  #include <unordered\_map>  #include "unistd.h"  class Node {  private:      zmq::context\_t context;  public:      std::unordered\_map<int, zmq::socket\_t \*> children;      std::unordered\_map<int, int> children\_port;      zmq::socket\_t parent;      int parent\_port;      int id;      Node(int \_id, int \_parent\_port = -1) : parent(context, ZMQ\_REP),                                             parent\_port(\_parent\_port),                                             id(\_id) {          if (\_id != -1) {              my\_net::connect(&parent, \_parent\_port);          }      }      std::string Ping\_child(int \_id) {          std::string ans = "Ok: 0";          if (\_id == id) {              ans = "Ok: 1";              return ans;          } else if (children.find(\_id) != children.end()) {              std::string msg = "ping " + std::to\_string(\_id);              my\_net::send\_message(children[\_id], msg);              try {                  msg = my\_net::reseave(children[\_id]);                  if (msg == "Ok: 1")                      ans = msg;              } catch (int) {}              return ans;          } else {              return ans;          }      }      std::string Create\_child(int child\_id, std::string program\_path) {          std::string program\_name = program\_path.substr(program\_path.find\_last\_of("/") + 1);          children[child\_id] = new zmq::socket\_t(context, ZMQ\_REQ);          int new\_port = my\_net::bind(children[child\_id], child\_id);          children\_port[child\_id] = new\_port;          int pid = fork();          if (pid == 0) {              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);          } else {              std::string child\_pid;              try {                  children[child\_id]->setsockopt(ZMQ\_SNDTIMEO, 3000);                  my\_net::send\_message(children[child\_id], "pid");                  child\_pid = my\_net::reseave(children[child\_id]);              } catch (int) {                  child\_pid = "Error: can't connect to child";              }              return "Ok: " + child\_pid;          }      }      std::string Pid() {          return std::to\_string(getpid());      }      std::string Send(std::string str, int \_id) {          if (children.size() == 0) {              return "Error: now find";          } else if (children.find(\_id) != children.end()) {              if (Ping\_child(\_id) == "Ok: 1") {                  my\_net::send\_message(children[\_id], str);                  std::string ans;                  try {                      ans = my\_net::reseave(children[\_id]);                  } catch (int) {                      ans = "Error: now find";                  }                  return ans;              }          } else {              std::string ans = "Error: not find";              for (auto &child: children) {                  if (Ping\_child(child.first) == "Ok: 1") {                      std::string msg = "send " + std::to\_string(\_id) + " " + str;                      my\_net::send\_message(children[child.first], msg);                      try {                          msg = my\_net::reseave(children[child.first]);                      } catch (int) {                          msg = "Error: not find";                      }                      if (msg != "Error: not find") {                          ans = msg;                      }                  }              }              return ans;          }          return "Error: not find";      }      std::string Remove() {          std::string ans;          if (children.size() > 0) {              for (auto &child: children) {                  if (Ping\_child(child.first) == "Ok: 1") {                      std::string msg = "remove";                      my\_net::send\_message(children[child.first], msg);                      try {                          msg = my\_net::reseave(children[child.first]);                          if (ans.size() > 0)                              ans = ans + " " + msg;                          else                              ans = msg;                      } catch (int) {}                  }                  my\_net::unbind(children[child.first], children\_port[child.first]);                  children[child.first]->close();              }              children.clear();              children\_port.clear();          }          return ans;      }  }; |

**worker.cpp**

|  |
| --- |
| #include "node.h"  #include "net\_func.h"  #include <fstream>  #include <vector>  #include <signal.h>  #include <chrono>  int my\_id = 0;  static bool timer\_running = false;  static std::chrono::time\_point<std::chrono::steady\_clock> start\_time;  static std::chrono::duration<double> elapsed(0.0);  void Log(std::string str) {      std::string f = std::to\_string(my\_id) + ".txt";      std::ofstream fout(f, std::ios\_base::app);      fout << str;      fout.close();  }  int main(int argc, char \*\*argv) {      if (argc != 3) {          return -1;      }      Node me(atoi(argv[1]), atoi(argv[2]));      my\_id = me.id;      std::string prog\_path = "./worker";      while (1) {          if (getppid() == 1) {  // Если родительский процесс мертв, завершаем узел              std::cout << "[WORKER] Parent process died. Exiting..." << std::endl;              break;          }          std::string message;          std::string command = " ";          message = my\_net::reseave(&(me.parent));          std::istringstream request(message);          request >> command;          if (command == "create") {              int id\_child;              request >> id\_child;              std::string ans = me.Create\_child(id\_child, prog\_path);              my\_net::send\_message(&me.parent, ans);          } else if (command == "pid") {              std::string ans = me.Pid();              my\_net::send\_message(&me.parent, ans);          } else if (command == "ping") {              int id\_child;              request >> id\_child;              std::string ans = me.Ping\_child(id\_child);              my\_net::send\_message(&me.parent, ans);          } else if (command == "send") {              int id;              request >> id;              std::string str;              getline(request, str);              str.erase(0, 1);              std::string ans;              ans = me.Send(str, id);              my\_net::send\_message(&me.parent, ans);          } else if (command == "exec") {              std::string cmd;              request >> cmd;              std::string ans;              if (cmd == "start") {                  if (!timer\_running) {                      timer\_running = true;                      elapsed = std::chrono::duration<double>(0);                      start\_time = std::chrono::steady\_clock::now();                      ans = "Ok:" + std::to\_string(me.id) + ":timer started";                  } else {                      ans = "Ok:" + std::to\_string(me.id) + ":timer already running";                  }              } else if (cmd == "time") {                  if (timer\_running) {                      auto now = std::chrono::steady\_clock::now();                      auto diff = elapsed + std::chrono::duration<double>(now - start\_time);                      ans = "Ok:" + std::to\_string(me.id) + ":elapsed " + std::to\_string(static\_cast<int>(diff.count() \* 1000)) + " ms";                  } else {                      ans = "Ok:" + std::to\_string(me.id) + ":elapsed " + std::to\_string(static\_cast<int>(elapsed.count() \* 1000)) + " ms";                  }              }else if (cmd == "stop") {                  if (timer\_running) {                      auto now = std::chrono::steady\_clock::now();                      elapsed += std::chrono::duration<double>(now - start\_time); // Сохраняем время                      timer\_running = false;                      ans = "Ok:" + std::to\_string(me.id) + ":timer stopped at " + std::to\_string(static\_cast<int>(elapsed.count() \* 1000)) + " ms";                  } else {                      ans = "Ok:" + std::to\_string(me.id) + ":timer not running";                  }              } else {                  ans = "Error: invalid exec command";              }              my\_net::send\_message(&me.parent, ans);          } else if (command == "remove") {      std::cout << "[WORKER] Removing node " << my\_id << "..." << std::endl;      std::string ans = me.Remove();      ans = std::to\_string(me.id) + " " + ans;      my\_net::send\_message(&me.parent, ans);      my\_net::disconnect(&me.parent, me.parent\_port);      me.parent.close();      std::cout << "[WORKER] Node " << my\_id << " removed successfully." << std::endl;      break;  }      }      sleep(1);      return 0;  } |

**Протокол работы программы**

|  |
| --- |
| kapchonka@kirill:~/vor2/OS/lab5-7/build$ ./client  create 10 -1  Ok: 30385  create 20 10  Ok: 30414  create 30 10  Ok: 30436  create 40 20  Ok: 30511  remove 20  [WORKER] Removing node 20...  [WORKER] Removing node 40...  [WORKER] Node 40 removed successfully.  [WORKER] Node 20 removed successfully.  Ok  exec 20 time  Error: Not found  exec 40 time  Error: Not found  exec 10 time  Ok:10:elapsed 0 ms  kapchonka@kirill:~/vor2/OS/lab5-7/build$ ./client  create 10 -1  Ok: 31156  create 20 10  Ok: 31250  create 100 150  Error: Parent not found  create 10 -1  Error: Already exists  kapchonka@kirill:~/vor2/OS/lab5-7/build$ ./client  create 10 -1  Ok: 32004  create 20 10  Ok: 32034  exec 10 start  Ok:10:timer started  exec 20 start  Ok:20:timer started  exec 10 time  Ok:10:elapsed 10028 ms  exec 10 stop  Ok:10:timer stopped at 16757 ms  exec 20 stop  Ok:20:timer stopped at 20113 ms  exec 20 time  Ok:20:elapsed 20113 ms  kapchonka@kirill:/vor2/OS/lab5-7/build$ ./client create 10 -1  Ok: 18954  create 20 10  Ok: 18984  create 30 10 Ok: 19019  create 40 20  Ok: 19058 kapchonka@kirill:/vor2/OS/lab5-7/build$ ps aux | grep worker  kapchon+ 18954 0.0 0.0 89160 4612 pts/4 Sl+ 13:01 0:00 worker 10 4050  kapchon+ 18984 0.0 0.0 89160 4504 pts/4 Sl+ 13:01 0:00 worker 20 4060  kapchon+ 19019 0.0 0.0 89028 2232 pts/4 Sl+ 13:01 0:00 worker 30 4070  kapchon+ 19058 0.0 0.0 89028 2244 pts/4 Sl+ 13:01 0:00 worker 40 4080  kapchon+ 19589 0.0 0.0 4028 2064 pts/5 S+ 13:02 0:00 grep --color=auto worker  kapchonka@kirill:/vor2/OS/lab5-7/build$ kill -9 18954 exec 10 time  Error: Node is unavailable  exec 20 time  Error: Node is unavailable  exec 30 time  Error: Node is unavailable |

**Strace:**

73024 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73024 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73024 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73024 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

73024 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

73024 --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

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73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

73024 --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

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73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

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73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

73024 --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

73024 read(0, 0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

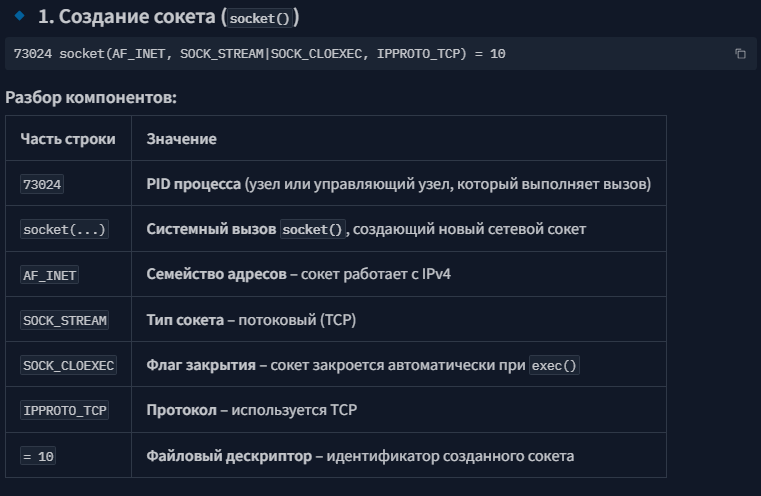
73024 --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

73024 read(0, "create 10 -1\n", 1024) = 13

73024 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE) = 10

73024 bind(10, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 0

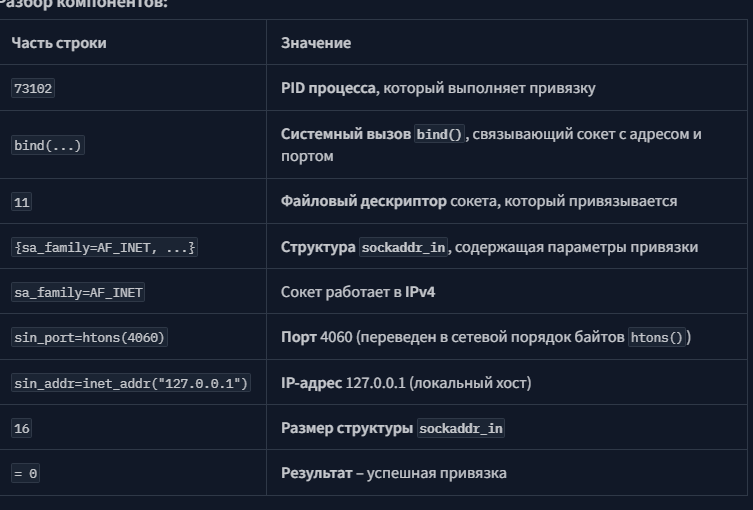
73024 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 10



Создание сокетов Этот вызов создает новый **сетевой сокет** для взаимодействия между узлами через **ZeroMQ**.

73024 bind(10, {sa\_family=AF\_INET, sin\_port=htons(4050), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

Привязывает сокет к локальному адресу (127.0.0.1) и порту (4050, 4060 и т. д.), чтобы узлы могли взаимодействовать через ZeroMQ.



73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73102 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73102 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73102 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

73102 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

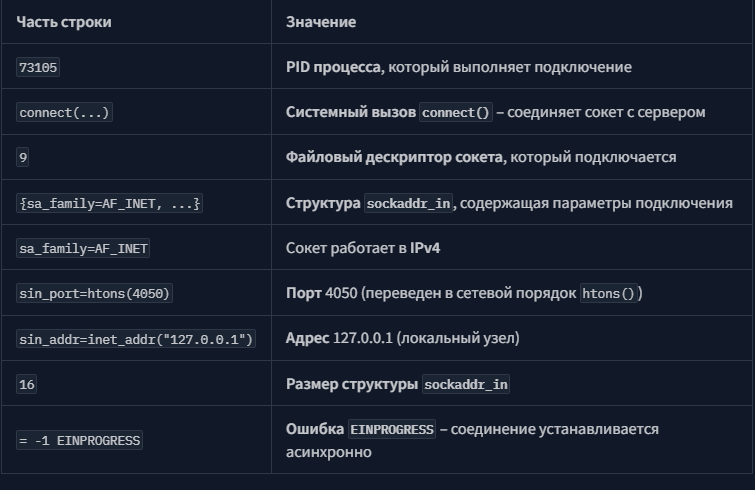
73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

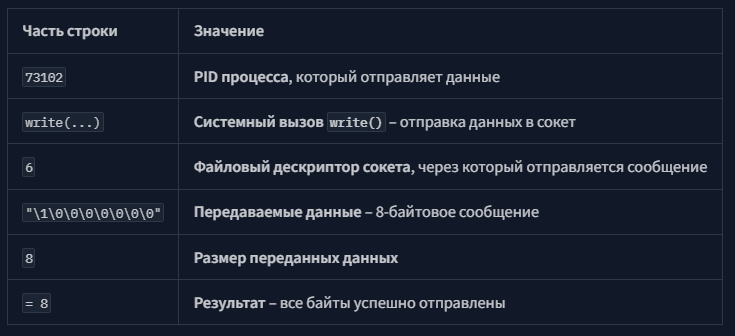
73105 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73105 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4050), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

Используется **в zmq\_connect() при добавлении узла к родителю**.



73026 write(6, "\1\0\0\0\0\0\0\0", 8) = 8



Отправка данных через ZeroMQ.

write(6, "\1\0\0\0\0\0\0\0", 8) означает, что узел отправляет 8-байтовое сообщение.

Используется в send\_message() в net\_func.h.

73105 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

* Узел **читает сообщение из сокета**.
* Используется **в reseave() в net\_func.h**.

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73026 write(9, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73105 <... write resumed>) = 8

73026 <... write resumed>) = 8

73102 read(8, <unfinished ...>

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73102 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok: 73102\n", 10) = 10

73024 read(0, <unfinished ...>

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73024 <... read resumed>"create 20 10\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE) = 11

73102 bind(11, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 0

73102 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 11

73102 bind(11, {sa\_family=AF\_INET, sin\_port=htons(4060), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73202 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73202 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73202 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

73202 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73204 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73204 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4060), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73105 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73202 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73102 <... write resumed>) = 8

73202 <... write resumed>) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok: 73202\n", 10) = 10

73024 read(0, "create 30 10\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE) = 14

73102 bind(14, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 0

73102 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 14

73102 bind(14, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73235 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73235 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73235 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

73235 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, <unfinished ...>

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP <unfinished ...>

73235 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73237 <... socket resumed>) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73105 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, <unfinished ...>

73105 write(13, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73235 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73105 <... write resumed>) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, <unfinished ...>

73237 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73102 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73237 <... write resumed>) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok: 73235\n", 10) = 10

73024 read(0, "create 40 20\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE) = 11

73202 bind(11, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 0

73202 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 11

73202 bind(11, {sa\_family=AF\_INET, sin\_port=htons(4080), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73268 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73268 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73268 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

73268 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

73268 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73270 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73270 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4080), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73204 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, <unfinished ...>

73270 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73202 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73270 <... write resumed>) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73268 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73202 <... write resumed>) = 8

73268 <... write resumed>) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok: 73268\n", 10) = 10

73024 read(0, "remove 20\n", 1024) = 10

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(1, "[WORKER] Removing node 20...\n", 29) = 29

Узел 20 удаляется из системы.

Используется в remove() в node.h.

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(1, "[WORKER] Removing node 40...\n", 29) = 29

73268 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(4, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(1, "[WORKER] Node 40 removed success"..., 39 <unfinished ...>

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73268 <... write resumed>) = 39

73204 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73269 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73202 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(4, "\1\0\0\0\0\0\0\0", 8) = 8

73269 read(8, <unfinished ...>

73204 read(6, <unfinished ...>

73269 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73204 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73269 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(1, "[WORKER] Node 20 removed success"..., 39 <unfinished ...>

73203 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73202 <... write resumed>) = 39

73270 read(6, <unfinished ...>

73204 write(10, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73270 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73204 <... write resumed>) = 8

73270 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73269 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(10, <unfinished ...>

73203 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73102 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73203 <... write resumed>) = 8

73269 write(4, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73269 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73203 read(10, "\1\0\0\0\0\0\0\0", 8) = 8

73203 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 write(10, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73203 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73204 <... write resumed>) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73204 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73026 <... write resumed>) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73203 read(10, <unfinished ...>

73024 write(1, "Ok\n", 3 <unfinished ...>

73203 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73024 <... write resumed>) = 3

73024 read(0, <unfinished ...>

73105 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73203 write(4, "\1\0\0\0\0\0\0\0", 8) = 8

73203 read(8, <unfinished ...>

73105 read(6, <unfinished ...>

73203 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73105 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73105 write(10, "\1\0\0\0\0\0\0\0", 8) = 8

73203 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(4, "\1\0\0\0\0\0\0\0", 8) = 8

73269 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73269 write(3, "\1\0\0\0\0\0\0\0", 8) = 8

73268 read(3, "\1\0\0\0\0\0\0\0", 8) = 8

73268 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73269 +++ exited with 0 +++

73270 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(4, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73270 +++ exited with 0 +++

73202 <... write resumed>) = 8

73203 read(4, "\1\0\0\0\0\0\0\0", 8) = 8

73203 write(3, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

73268 +++ exited with 0 +++

73203 <... write resumed>) = 8

73202 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=73268, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=2} ---

73202 read(3, "\1\0\0\0\0\0\0\0", 8) = 8

73202 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73203 +++ exited with 0 +++

73204 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73204 +++ exited with 0 +++

73202 +++ exited with 0 +++

73102 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=73202, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=4} ---

73024 <... read resumed>"exec 20 time\n", 1024) = 13

73024 write(1, "Error: Not found\n", 17) = 17

73024 read(0, "exec 40 time\n", 1024) = 13

73024 write(1, "Error: Not found\n", 17) = 17

73024 read(0, "exec 10 start\n", 1024) = 14

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok:10:timer started\n", 20) = 20

73024 read(0, "exec 30 start\n", 1024) = 14

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok:30:timer started\n", 20) = 20

73024 read(0, "exec 10 stop\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok:10:timer stopped at 11707 ms\n", 32) = 32

73024 read(0, "exec 30 stop\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73235 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(13, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok:30:timer stopped at 13267 ms\n", 32) = 32

73024 read(0, "exec 10 time\n", 1024) = 13

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 write(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

73102 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73105 read(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73024 write(1, "Ok:10:elapsed 11707 ms\n", 23) = 23

73024 read(0, <unfinished ...>

73105 +++ killed by SIGKILL +++

73104 +++ killed by SIGKILL +++

73102 +++ killed by SIGKILL +++

73024 <... read resumed>0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

73024 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_KILLED, si\_pid=73102, si\_uid=1000, si\_status=SIGKILL, si\_utime=0, si\_stime=8} ---

73024 read(0, <unfinished ...>

73237 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73026 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

73237 read(6, <unfinished ...>

73026 read(6, <unfinished ...>

73237 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73026 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

73026 write(9, "\1\0\0\0\0\0\0\0", 8) = 8

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

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73024 <... read resumed>"exec 10 time\n", 1024) = 13

73024 read(9, "\1\0\0\0\0\0\0\0", 8) = 8

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

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73024 write(1, "Error: Node is unavailable\n", 27) = 27

73024 read(0, <unfinished ...>

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

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73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

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73024 <... read resumed>"exec 30 time\n", 1024) = 13

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

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73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

73024 write(1, "Error: Node is unavailable\n", 27) = 27

73024 read(0, <unfinished ...>

73237 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

73237 connect(9, {sa\_family=AF\_INET, sin\_port=htons(4070), sin\_addr=inet\_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)

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73024 <... read resumed>0x5594100ca480, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

73024 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

73235 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

73237 +++ killed by SIGINT +++

73236 +++ killed by SIGINT +++

73026 +++ killed by SIGINT +++

73025 +++ killed by SIGINT +++

73024 +++ killed by SIGINT +++

73235 +++ killed by SIGINT +++

**Выводы**

Интересно было поработать и разобраться в zmq