Московский Авиационный Институт

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Институт №8 "Компьютерные науки и прикладная математика" Кафедра №806 "Вычислительная математика и программирование"

Лабораторная работа №1 по курсу «Операционные системы»

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Оценка:

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Постановка задачи

Вариант 16.

Родительский процесс создает дочерний процесс. Первой строкой пользователь в консоль родительского процесса вводит имя файла, которое будет использовано для открытия File с таким именем на запись. Перенаправление стандартных потоков ввода-вывода показано на картинке выше. Родительский и дочерний процесс должны быть представлены разными программами. Родительский процесс принимает от пользователя строки произвольной длины и пересылает их в pipe1. Процесс child проверяет строки на валидность правилу. Если строка соответствует правилу, то она выводится в стандартный поток вывода дочернего процесса, иначе в pipe2 выводится информация об ошибке. Родительский процесс полученные от child ошибки выводит в стандартный поток вывода.

Вариант 16) Правило проверки: строка должна оканчиваться на ";" или "."

Общий метод и алгоритм решения

Использованные системные вызовы:

• int pipe(int *fd):

Создает пару файловых дескрипторов для межпроцессного взаимодействия (ріре). Один дескриптор используется для записи, другой - для чтения.

• int open(const char *pathname, int flags, mode_t mode):

Открывает файл с заданным именем. Параметры определяют режим открытия (например, только для записи, создание нового файла, обрезка существующего файла) и права доступа для нового файла.

• pid_t fork(void):

Создает новый процесс (дочерний) путем копирования текущего (родительского) процесса. Возвращает PID дочернего процесса в родительском процессе и 0 в дочернем.

• int dup2(int oldfd, int newfd):

Дублирует файловый дескриптор oldfd в newfd, перенаправляя стандартный ввод или вывод (например, связывает ввод-вывод с ріре).

• int execvp(const char *file, char *const argv[]):

Замещает текущий процесс новым процессом, запуская исполняемый файл с аргументами. Если выполнение не удается, возвращает -1.

• ssize t read(int fd, void *buf, size t count):

Читает данные из файла (или pipe) в буфер. Возвращает количество фактически прочитанных байтов или 0, если достигнут конец файла.

• ssize t write(int fd, const void *buf, size t count):

Записывает данные из буфера в файл (или pipe). Возвращает количество фактически записанных байтов.

• int close(int fd):

Закрывает файловый дескриптор, освобождая ресурсы, связанные с ним.

• pid_t wait(int *status):

Ожидает завершения дочернего процесса. Возвращает PID завершившегося процесса или -1 в случае ошибки.

• void perror(const char *s):

Выводит сообщение об ошибке, основанное на коде ошибки, связанной с последним системным вызовом, с предварительным сообщением, указанным в параметре s.

• void exit(int status):

Завершает выполнение программы с указанным статусом, освобождая все ресурсы.

• size_t strcspn(const char *s, const char *reject):

Вычисляет длину начального сегмента строки s, который не содержит ни одного из символов в строке reject.

• int snprintf(char *str, size t size, const char *format, ...):

Форматирует строку и записывает ее в буфер, гарантируя, что не произойдет переполнение буфера.

Описание программы

Данный код состоит из двух частей: родительского процесса и дочернего процесса. Родительский процесс собирает ввод пользователя, передает данные дочернему процессу, который проверяет валидность строк и возвращает результаты обратно родительскому процессу. Все валидные и невалидные строки записываются в файл.

Основные функции программы:

1. Создание ріре:

Программа создает два трубопровода (pipe) для межпроцессного взаимодействия. Один трубопровод используется для передачи строк от родительского процесса к дочернему, а другой — для передачи результатов обратно.

2. Запрос имени файла:

Родительский процесс запрашивает у пользователя имя файла, в который будут записываться результаты.

3. Открытие файла:

Файл открывается для записи, создается, если не существует, и обрезается, если существует.

4. Создание дочернего процесса:

Используя fork(), программа создает дочерний процесс. Если создание дочернего процесса прошло успешно, он перенаправляет стандартный ввод и стандартный вывод через dup2() на соответствующие трубопроводы.

5. Ввод строк:

Родительский процесс считывает строки из стандартного ввода (консоли) и передает их через трубопровод в дочерний процесс.

6. Обработка строк в дочернем процессе:

Дочерний процесс считывает строки из стандартного ввода (который теперь перенаправлен на первый трубопровод). Он проверяет каждую строку:если последний символ строки ";" или ".", считается, что строка валидная, и она

помечается как "Валидная строка". Если строка невалидная, она помечается как "Не валидная строка".

7. Запись результатов в файл:

Родительский процесс считывает результаты из второго трубопровода и записывает их в указанный файл.

8. Завершение работы:

После завершения передачи данных родительский процесс ожидает завершения дочернего процесса с помощью wait() и закрывает открытые файловые дескрипторы.

Как работает программа:

- Программа сначала создает два трубопровода для межпроцессного взаимодействия.
- Она запрашивает у пользователя имя файла, в который будут записываться результаты.
- Далее, программа открывает файл и создает дочерний процесс с помощью fork().
- В дочернем процессе стандартный ввод и вывод перенаправляются на трубопроводы.
- Родительский процесс запрашивает ввод строк от пользователя и записывает их в первый трубопровод.
- Дочерний процесс считывает строки из первого трубопровода, проверяет их на валидность и отправляет результаты через второй трубопровод.
- Родительский процесс считывает результаты из второго трубопровода и записывает их в файл.
- После завершения всех операций происходит очистка: закрываются файловые дескрипторы и дочерний процесс завершается.

Примечания:

- Программа использует fgets() для считывания строк, что позволяет обрабатывать ввод с учетом пробелов.
- В случае ошибок при работе с файлами или создании процессов, программа выводит сообщение об ошибке с помощью perror(), после чего завершается.

Код программы

parent.c

```
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <fcntl.h>
#include <sys/wait.h>
```

```
#define BUFFER SIZE 1024
#define ERROR BUFFER SIZE 256
void write string(int fd, const char *str) {
  write(fd, str, strlen(str));
void read string(int fd, char *buffer, size t size) {
 read(fd, buffer, size);
Ł
int main() {
  <u>int pipe1[2];</u>
 int pipe2[2];
  char filename[BUFFER SIZE];
  <u>if (pipe(pipe1) == -1 || pipe(pipe2) == -1) {</u>
      write_string(STDOUT_FILENO,"Failed to create pipes");
     exit(EXIT FAILURE);
  - }
  const char *prompt = "Введите имя файла: ";
 write string(STDOUT FILENO, prompt);
 read string(STDIN FILENO, filename, sizeof(filename));
  filename[strcspn(filename, "\n")] = '\0';
```

```
int file descriptor = open(filename, O WRONLY | O CREAT |
O TRUNC, S IRUSR | S IWUSR);
 if (file descriptor == -1) {
      write string(STDOUT FILENO, "Не удалось открыть файл");
  exit(EXIT FAILURE);
 }
  pid t child pid = fork();
 <u>if (child pid == -1) {</u>
     write string(STDOUT FILENO, "Не удалось создать процесс");
      exit(EXIT FAILURE);
  _}
  if (child pid == 0) {
  close(pipe1[1]);
     close(pipe2[0]);
      dup2(pipe1[0], STDIN FILENO);
      dup2(pipe2[1], STDOUT FILENO);
      char *args[] = {"./child", NULL};
   execvp(args[0], args);
      write string(STDOUT FILENO, "Не удалось запустить дочерний
процесс");
      exit(EXIT FAILURE);
```

```
} else {
      char input[BUFFER SIZE];
      char valid msq[BUFFER SIZE];
      close(pipe1[0]);
      close(pipe2[1]);
      const char *input prompt = "Введите строки (CTRL+D для
<u> вавершения):\n";</u>
     write string(STDOUT FILENO, input prompt);
      while (read(STDIN FILENO, input, sizeof(input)) > 0) {
          input[strcspn(input, "\n")] = '\0';
         write(pipe1[1], input, strlen(input) + 1);
  ŀ
   close(pipe1[1]);
     <u>while (1) {</u>
         ssize t bytes read = read(pipe2[0], valid msq,
sizeof(valid msg));
          if (bytes read > 0) {
             valid msg[bytes read] = '\0'; // Завершение строки
            write(file descriptor, valid msg,
strlen(valid msg)); // Запись валидной строки в файл
      } else if (bytes read == 0) {
             break; // Конец чтения
```

```
}

wait(NULL);

close(pipe2[0]);

close(file_descriptor);

return 0;
}
```

child.c

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#define BUFFER SIZE 1024
#define ERROR BUFFER SIZE 256
int main() {
 char input[BUFFER SIZE];
 char error msg[ERROR BUFFER SIZE];
  while (read(STDIN FILENO, input, sizeof(input)) > 0) {
```

```
input[strcspn(input, "\n")] = '\0';
     if (input[strlen(input) - 1] == ';' || input[strlen(input)
- 1] == '.') {
    <u>char tmp[1100];</u>
      <u>int ret = snprintf(tmp, sizeof(tmp), "Валидная строка:</u>
%s\n", input);
      <u>if (ret < 0) {</u>
     abort();
    write(STDERR_FILENO, tmp, strlen(tmp));
      write(STDOUT FILENO, tmp, strlen(tmp));
  } else {
      if (strlen(input)) {
        int ret = snprintf(error msg, sizeof(error msg),
"Не валидная строка: sn_{,} input);
      if (ret < 0) {</pre>
      abort();
      write(STDOUT FILENO, error msg, strlen(error msg));
   }
 }
 }
```

```
return 0;
```

Протокол работы программы

```
Тестирование:
                  $ gcc parent.c -o parent
                  $ gcc child.c -o child
                  $ ./parent
                  Введите имя файла: test
                  Введите строки (CTRL+D для завершения):
                  dajmmmnacl;
                  Валидная строка: dajmmmnacl;
                  kdcnskv.
                  Валидная строка:kdcnskv.
                 Wknvcslvo ods
                  a; cadkjvudbk
                  Файл test:
                  Валидная строка: dajmmmnacl;
                  Валидная строка: kdcnskv.
                  Не валидная строка: Wknvcslvo ods
                  Не валидная строка: a;cadkjvudbk
                  Strace:
                  sudo dtruss ./parent //аналог strace для macOs
                  stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                                                                                                             = -1 2
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Graph.framework/Versions/A/AttributeGraph\0", 0x7FFB116CAA0, 0x0)
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0x7FF7B116CB20, 0x0) = -1 2 Frameworks/Vision.framework/libfaceCore.dylib\0",
gnition(0,75)stem/library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TextRecognition(",0x7Ff7B116CA90,0x0)" = -1 2
gnition\0",5ystem/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/Versions/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.framework/A/TextRecognition.frame
0x7FF7B116CB20, 0x0) = -1 2 0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Futhark.f
ramework/Versions/A/Futhark\0", 0x/FF7B116CAAO, 0x0) = -1 2
```

```
stat64("/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0",
0x7FF7B116CB20, 0x0) = -1 2
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stat64("/System/Library/PrivateFrameworks/SoftwareUpdateCoreConnect.framework/Versions/
A/SoftwareUpdateCoreConnect(0", 0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/OSAnalyti
cs.framework/Versions/A/OSAnalytics\0", 0x7FF7B116CAA0, 0x0)
0", 0x/FF/B116CB20, 0x0) estat64("/System/Library/PrivateFrameworks/OSAnalytics.framework/Versions/A/OSAnalytics\
orkServiceProxy(0", 0x/FF/Bil6CB20, 0x0) stat64("/System/Library/PrivateFrameworks/NetworkServiceProxy(0", 0x/FF/Bil6CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/NetworkServiceProxy.framework/Versions/A/NetworkServiceProxy(0", 0x/FF/Bi16CB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftQuartzCore.dylib\0", 0x7FF7B116CB20, 0x0)
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cyptexes/OS/usr/lib/swift/libswiftQuartzCore.dylib\0",
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mework/Versions/A/kperf\0,0x7Ff7B116CAB0,0x0)
```

```
stat64("/System/Library/PrivateFrameworks/kperf.framework/Versions/A/kperf\0",
0x7FF7B116CB20, 0x0)
0x7FF7B116CB20, 0x0) System/Library/PrivateFrameworks/ktrace.framework/Versions/A/ktrace\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ktrace.fr
amework/Versions/A/ktrace\0", 0x/FF7BI16CAB0, 0x0)
0x7FF7B116CB20, 0x0) = -1 2 0x7FF7B116CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MobileSystemServices.framework/Versions/A/Mob
ileSystemServices(0", 0x7FFFB116CB20, 0x0)
temServices. framework/Versions/A/MobileSystemServices. framework/Versions/A/MobileSystemServices. framework/Versions/A/MobileSystemServices.
stat64("/System/Library/PrivateFrameworks/MobileSystemServices.framework/Versions/A/MobileSystemServices\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpost
Support(0",0x7Ff7B116CB20,0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SignpostSupport(0", 0x7FF7B116CA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpost
Support(0",0x7Ff8116CB20,0x0)
= -1 2
lysis\0", 0x7FFB116CB20, 0x0)
lysis\0", 0x7FFB116CB20, 0x0)
lysis.framework/Versions/A/SampleAnalysis\0,0x7FFB116CAA0,0x0)
lysis \frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}
                   stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libamsupport.dylib\0", 0x7FF7B116CAD0, 0x0) = -1 2
                   stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B116CB20, 0x0)
0", 0x/FF/B116CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/BiomePubSub.framework/Versions/A/BiomePubSub\
= -1 2
ub.framework/Versions/A/BiomePubSub\0, 0x7FF7B116CAA0, 0x0)
0", 0x/FF/B116CB20, 0x0)
or stat64("/System/Library/PrivateFrameworks/BiomePubSub.framework/Versions/A/BiomePubSub\
= -1 2
age.framework/Versions/A/BiomeStorage(0,0x/FF/B116CAA0,0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DeviceIde
ntity.framework/Versions/A/DeviceIdentity\0", 0x7FFBI16CAA0, 0x0)
ntity\0", 0x7FF7B116CB20, 0x0)
rtity\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/SymptomReporter(0", 0x7Ff7B116CA90, 0x0)
stat64("/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/Versions/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/SymptomReporter.framework/A/
= -1 2 stat64("/usr/lib/swift/libswiftUniformTypeIdentifiers.dylib\0", 0x7FF7B116CB20, 0x0)
rs.dylib\0", 0x/FF7B116CAC0, 0x0) rs.dylib\0", 0x/FF7B116CAC0, 0x0)
= -1 2 \frac{1}{2} \frac{1
= -1 2 stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B116CB20, 0x0)
0x7FF7B116CAC0, 0x0) Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftAccelerate.dylib\0",
= -1 2 stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B116CB20, 0x0)
                   stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B116CB20, 0x0)
```

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stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                                                                                = -1 2
0 \times 7 + 7 \times 164 ("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0", 0 \times 7 \times 164 ("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0")
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0", 0x/FF7B116CAA0, 0x0) = -1 2
0x7FF7B116CB20, 0x0) = -1 2 0x7FF7B116CB20, 0x0)
0x7FF7B116CB20, 0x0) System/Library/PrivateFrameworks/Osprey.framework/Versions/A/Osprey\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Osprey.fr
amework/Versions/A/Osprey\0", 0x/Ff/B116CAB0, 0x0)
0x7FF7B116CB20, 0x0)
0x7FF7B116CB20, 0x0)
constant
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0x7FF7B116CB20, 0x0)
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const
= -1 2 stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B116CB20, 0x0)
\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCryptoTokenKit.dylib
= -1 2 stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B116CB20, 0x0)
               stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B116CB20, 0x0)
ox7FF7B116CACO, 0x0)
0x7FF7B116CACO, 0x0)
ox7FF7B116CACO, 0x0)
               stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/kperfdata
framework/Versions/A/kperfdata\0", 0x7FF7B116CAA0, 0x0)
= -1 2
\frac{1}{0} stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0", \frac{1}{0} = -1 2
stat64("/System/Library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSymbolication(0", 0x7FF7B116CA90, 0x0)
mbolication("/System/library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/Versions/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.framework/A/BulkSymbolication.fram
               stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                                                                                = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftOSLog.dylib\0",
0x7FF7B116CAD0, 0x0) = -1 2
               stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                                                                                = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B116CB20, 0x0)
ion\0; stat64("/System/Library/PrivateFrameworks/Symbolication.framework/Versions/A/Symbolicat
tion. stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Symbolication(0,0x)FFFB116CAA0,0x0)
ion\0°,0x7FF7B116CB20,0x0)/PrivateFrameworks/Symbolication.framework/Versions/A/Symbolicat
0x7FF7B116CB20, 0x0) = -1 2 ox7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Netrb.fra
mework/Versions/A/Netrb\0", 0x7FF7B116CAB0, 0x0)
stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
0x7FF7B116CB20, 0x0)
0x0) stat64("/System/Library/Frameworks/OSLog.framework/Versions/A/OSLog\0", 0x7FF7B116CB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OSLog.framework/Versions/A/OSLog.00,0x7FF7B116CAB0,0x0)
0x0) stat64("/System/Library/Frameworks/OSLog.framework/Versions/A/OSLog\0", 0x7FF7B116CB20, = -1 2
stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/InternalSwiftProtobuf(0", 0x7FF7BI16CB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/InternalSwiftProtobuf(0", 0x7FF7BI16CB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/HIDDispla
y.framework/Versions/A/HIDDisplay\0", 0x7FF7B116CAA0, 0x0)
= -1 2
0 \times 7 = 164(\%) \times 16
ork/versions/A/cryptoKit\0,0x7Ff7B116CAB0,0x0)
0x7FF7B116CB20, System/Library/Frameworks/CryptoKit.framework/Versions/A/CryptoKit\0", 0x7FF7B116CB20, 0x0)
                     stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B116CB20, 0x0)
0x7FF7B116CAD0, 0x0) = -1 2 0x7FF7B116CAD0, 0x0) = -1 2
                     stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B116CB20, 0x0)
s\0", stat64("/System/Library/PrivateFrameworks/FeatureFlags.framework/Versions/A/FeatureFlag = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FeatureFl
ags.framework/Versions/A/FeatureFlags(0,0x7FF7B116CAA0,0x0)
s\0", stat64("/System/Library/PrivateFrameworks/FeatureFlags.framework/Versions/A/FeatureFlag = -1 2
= -1 stat64("/usr/lib/swift/libswiftNaturalLanguage.dylib\0", 0x7FF7B116CB20, 0x0)
b\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftNaturalLanguage.dyli
= -1 2 stat64("/usr/lib/swift/libswiftNaturalLanguage.dylib\0", 0x7FF7B116CB20, 0x0)
oPeer $1,64("/System/Library/PrivateFrameworks/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/Versions/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeerToPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.framework/A/WiFiPeer.f
oPeer.framework/Versions/A/WiFiPeerToPeer\0,0x7FF/BII6CAA0,0x0)
oPeer\0", 0x7FF7B116CB20, 0x0) = -1 2
igProfileHelper(0", 0x7FF7B116CB20, 0x0)
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upport.dylib\0", 0x/FF/B116CB20, 0x0)

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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/MetalPerformance Shaders framework/Versions/A/Frameworks/MPSFunctions.framework/Versions/A/MPSFunctions\0", 0x0)
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ytics.framework/Versions/A/AudioAnalytics\0", 0x7FFB116CAA0, 0x0) = -1 2 ytics\0", 0x7FF7B116CB20, 0x0)
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o", ox/ff/Bil6CB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FramePaci ng.framework/Versions/A/FramePacing(0",0x7FF7B116CAA0,0x0) 0", 0×164 ("/System/Library/PrivateFrameworks/FramePacing.framework/Versions/A/FramePacing\= -1 2 stat64("/System/Library/PrivateFrameworks/GPUCompiler.framework/Yersions/32023/Librarie
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MIL.frame
work/Versions/A/MIL\0', 0x7FF7BI16CAB0, 0x0)
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0 \times 7 + F + 64 ( \text{"/System/Library/PrivateFrameworks/MLAssetIO.framework/Versions/A/MLAssetIO\0", 0 \times 7 + 7 \times 10 \times 10^{-1} ) = -12 \times 10^{-1} 
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rRuntime.framework/Versions/A/MLCompilerRuntime(0,0x7FF7B116CA90,0x0) = -1 2
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/A/SiriCrossDeviceArbitration\0", 0x/FF/B116CB20, 0x0) DeviceArbitration.framework/Versions/A/yricrossDeviceArbitration/PrivateFramework/SiriCrossDeviceArbitration/PrivateFramework/Versions/A/yricrossDeviceArbitration/PrivateFramework/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/SiriCrossDeviceArbitration/S /A/SiriCrossDeviceArbitration\0, 0x7FF7B116CB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback(0", 0x7FF7B116CB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCross
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/XPCSupport
t.framework/Versions/A/XPCSupport(0", 0x7FF/BI16CAA0, 0x0)
, 0x7FF/B116CB20, 0x0 Library/PrivateFrameworks/XPCSupport.framework/Versions/A/XPCSupport\0" = -1 2
                              stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B116CB20, 0x0)
0x7FF7B116CAC0, 0x0) \\ = \frac{1}{2} \\ \text{Cryptexes/OS/usr/lib/libAXSafeCategoryBundle.dylib} \\ \text{On the property of the property
                              stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B116CB20, 0x0)
                              stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B116CB20, 0x0)
0x7FF7B116CAD0, 0x0) Preboot/Cryptexes/OS/usr/lib/libAppleArchive.dylib\0", 0x7FF7B116CAD0, 0x0)
```

```
stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
           stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                      = -1 2
0x7FF7BI16CAD0, 0x0) = -1 2 2x7FF7BI16CAD0, 0x0) = -1 2 2x7FF7BI16CAD0, 0x0)
           stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                      = -1 2
           stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libRosetta.dylib\0", 0x7FF7B116CAD0, 0x0) = -1 2
           stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
           stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B116CB20, 0x0)
\texttt{0x0}) \quad \text{stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libTLE.dylib\0", 0x7FF7B116CAD0, 0x0)} \quad \text{ox0} \quad \text{o
           stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
           stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcrypto.46.dylib\0", 0x7FF7B116CAD0, 0x0) = -1 2
           stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
           stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B116CB20, 0x0)
0x7FF7B116CAD0, 0x0) = -1 2
0x7FF7B116CAD0, 0x0) = -1 2
           stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
           stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
           stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
0x7FF7B116CAD0, 0x0)
Ox7FF7B116CAD0, 0x0)
           stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
           stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
\frac{1}{0} stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libssl.48.dylib\0", \frac{1}{0} = -1 2
           stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                     = -1 2
stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B116CB20, 0x0)
           stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                      = -1 2
ox7FF7B116CACO, 0x0)
ox7FF7B116CACO, 0x0)
ox7FF7B116CACO, 0x0)
           stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                                                      = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftObservation.dylib\\0" = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B116CB20, 0x0)
". stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftRegexBuilder.dylib\0". 0x7FF7B116CAC0. 0x0) = -1 2
stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B116CB20, 0x0)
```

```
b\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftSynchronization.dylib\0", 0x/FF7B116CAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B116CB20, 0x0)
         stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
0x7FF7B116CAD0, 0x0) = 12 = 12 = 12
         stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
= -1 \frac{1}{2} stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B116CB20, 0x0)
\0", Stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Builtin_float.dylib = -1 2
stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 \frac{1}{2} stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B116CB20, 0x0)
". stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Concurrency.dylib\0
". 0x7FF7B116CACO. 0x0)
= -1 stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B116CB20, 0x0)
lib\0", 0x/PF/Bil6CAC0, 0x0) Preboot/Cryptexes/OS/usr/lib/swift/libswift_StringProcessing.dy
stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B116CB20, 0x0)
         stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
0x7FF7B116CAD0, Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_errno.dylib\0",
         stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_math.dylib\0",
0x7FF7B116CAD0, 0x0)
         stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
0x7FF7B116CAD0, 0x0) 0x7FF7B116CAD0, 0x0)
         stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B116CAD0, 0x0)
         stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
ox7FF7B116CAD0, 0x0)
Ox7FF7B116CAD0, 0x0)
ox7FF7B116CAD0, 0x0)
         stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
 \begin{array}{l} \text{System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftsys\_time.dylib} \\ \text{0x7FF7B116CAC0}, \text{0x0} \end{array} 
         stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
         stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                   = -1 2
0x7FF7B116CAD0, 0x0) Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftunistd.dylib\0",
         stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B116CB20, 0x0)
                                                                                                                                                    = -1 2
= -1 \frac{1}{2} \frac{1}{2}
ylib\@; stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.d
```

```
= -1 5tat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B116CB20, 0x0)
stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B116CB20, 0x0)
\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_eligibility.dylib
stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B116CB20, 0x0)
= -1 2 stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B116CB20, 0x0)
0", 0x/FF/B116CAC0, 0x0) ostates.dylib\
= -1 2 stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B116CB20, 0x0)
    open("/Users/romanmarkin/Documents/OS_labs/parent\0", 0x0, 0x0)
                                                                         = 3 0
     mac syscall(0x7FF815440F23, 0x2, 0x7FF7B116D250)
                                                                  = 0 0
    map_with_linking_np(0x7FF7B116D1D0, 0x1, 0x7FF7B116D200)
                                                                         = -1 22
    close(0x3)
    mprotect(0x10ED83000, 0x4000, 0x1)
                                                  = 0 0
    open("/dev/dtracehelper\0", 0x2, 0x0)
                                                   = 30
     ioctl(0x3, 0x80086804, 0x7FF7B116C688)
                                                  = 0.0
    close(0x3)
    = 0.0
     access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)
                                                                 = -1 2
    bsdthread register(0x7FF815748BE0, 0x7FF815748BCC, 0x2000)
                                                                         = 1073742303 0
    getpid(0x0, 0x0, 0x0)
                                   = 1527 0
     shm open(0x7FF8155ECF42, 0x0, 0x155EB388)
                                                          = 3 0
    fstat64(0x3, 0x7FF7B116CDB0, 0x0)
                                                   = 0 0
    mmap(0x0, 0x5000, 0x1, 0x40001, 0x3, 0x0)
                                                          = 0x10ED8D000 0
     close(0x3)
                            = 0 0
     csops(0x5F7, 0x0, 0x7FF7B116CEE4)
                                                   = 0 0
     ioctl(0x2, 0x4004667A, 0x7FF7B116CE74)
                                                   = 0.0
    mprotect(0x10ED97000, 0x1000, 0x0)
                                                   = 0 0
    mprotect(0x10EDA3000, 0x1000, 0x0)
                                                   = 0 0
    mprotect(0x10EDA4000, 0x1000, 0x0)
                                                   = 0.0
    mprotect(0x10EDB0000, 0x1000, 0x0)
                                                   = 0.0
    mprotect(0x10ED92000, 0xC8, 0x1)
                                                   = 0.0
    mprotect(0x10ED92000, 0xC8, 0x3)
                                                   = 0.0
    mprotect(0x10ED92000, 0xC8, 0x1)
                                                  = 0 0
    mprotect(0x10EDB1000, 0x1000, 0x1)
                                                   = 0 0
    mprotect(0x10EDB2000, 0xC8, 0x1)
                                                  = 0.0
    mprotect(0x10EDB2000, 0xC8, 0x3)
    mprotect(0x10EDB2000, 0xC8, 0x1)
                                                   = 0 0
    mprotect(0x10ED92000, 0xC8, 0x3)
                                                   = 0.0
    mprotect(0x10ED92000, 0xC8, 0x1)
                                                   = 0 0
    mprotect(0x10EDB1000, 0x1000, 0x3)
                                                   = 0 0
    mprotect(0x10EDB1000, 0x1000, 0x1)
                                                  = 0 0
     issetugid(0x0, 0x0, 0x0)
                                           = 0 0
     getentropy(0x7FF7B116C5B0, 0x20, 0x0)
                                                  = 0 0
0x7FF7B116CD6C)
     access("/Users/romanmarkin/Documents/OS labs\0", 0x4, 0x0)
                                                                         = 0 0
    open("/Users/romanmarkin/Documents/OS_labs\0", 0x0, 0x0)
                                                                         = 3 0
    fstat64(0x3, 0x7FA193704470, 0x0)
                                                   = 0 0
```

```
csrctl(0x0, 0x7FF7B116CF7C, 0x4)
                                                              = -1 1
      fgetattrlist(0x3, 0x7FF7B116D010, 0x7FF7B116CF90)
      __mac_syscall(0x7FF8219F6555, 0x2, 0x7FF7B116CF90)
                                                                                 = 0 0
      fcntl(0x3, 0x32, 0x7FF7B116CC60)
                                                              = 0 0
      close(0x3)
      open("/Users/romanmarkin/Documents/OS_labs/Info.plist\0", 0x0, 0x0)
                                                                                                   = -1 2
      proc_info(0x2, 0x5F7, 0xD)
                                                     = 64 0
      csops_audittoken(0x5F7, 0x10, 0x7FF7B116CFB0)
                                                                        = -1 22
dtrace: error on enabled probe ID 1747 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28
dtrace: error on enabled probe ID 1747 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28
      pipe(0x0, 0x0, 0x0)
                                            = 3 0
      pipe(0x0, 0x0, 0x0)
                                            = 5 0
dtrace: error on enabled probe ID 1717 (ID 177: syscall::write:return): invalid kernel access in action #12 at DIF offset 68
```

Вывод

Сегодня мы научились разрабатывать программу на С, которая использует межпроцессное взаимодействие через трубопроводы (pipes). Мы реализовали родительский процесс, который принимает пользовательский ввод и передает его дочернему процессу для проверки на валидность. В зависимости от результата проверки, валидные и невалидные строки записываются в указанный файл, что позволяет эффективно обрабатывать и сохранять данные. Возникли проблемы с нахождением аналога strace для мака, но успешно разозбрался.