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Лабораторная работа №3 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:

B parent.c:

- 1. write Запись данных в файловый дескриптор (stdout или stderr).
- 2. read Чтение данных из файлового дескриптора (stdin).
- 3. fork Создание нового процесса (порождает дочерний процесс).
- 4. execv Замена текущего процесса на новый образ (используется для запуска программы child).
- 5. shm_open Создание или открытие разделяемой памяти.
- 6. ftruncate Изменение размера файла (в данном случае разделяемой памяти).
- 7. ттар Отображение разделяемой памяти в адресное пространство процесса.
- 8. sem open Создание или открытие именованных семафоров.
- 9. sem post Увеличение значения семафора (разрешение).
- 10. sem_wait Уменьшение значения семафора (ожидание).
- 11. wait Ожидание завершения дочернего процесса.
- 12. типтар Снятие отображения разделяемой памяти.
- 13. shm unlink Удаление объекта разделяемой памяти.
- 14. sem close Закрытие дескриптора семафора.
- 15. sem unlink Удаление именованного семафора.
- 16. exit или exit Завершение процесса.

B child.c:

- 1. write Запись данных в файловый дескриптор (stdout или файл).
- 2. shm open Открытие разделяемой памяти.
- 3. ттар Отображение разделяемой памяти в адресное пространство процесса.
- 4. sem open Открытие именованных семафоров.
- 5. sem wait Ожидание сигнала от семафора.
- 6. sem post Уведомление о завершении обработки через семафор.
- 7. ореп Открытие или создание файла.
- 8. close Закрытие файлового дескриптора.

- 9. типтар Снятие отображения разделяемой памяти.
- 10. _ехіт или ехіт Завершение процесса.

Эти системные вызовы используются для управления процессами, файлами, разделяемой памятью и синхронизации между процессами с помощью семафоров.

Код программы

parent.c

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <fcntl.h>
#include <sys/wait.h>
#include <sys/mman.h>
#include <semaphore.h>
#define BUFFER SIZE 1024
#define SHM NAME "/my shared memory"
#define SEM NAME PARENT "/my semaphore parent"
#define SEM_NAME_CHILD "/my_semaphore_child"
static char CLIENT PROGRAM NAME[] = "./child";
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);
int main() {
  char filename[BUFFER SIZE];
 const char *prompt = "Введите имя файла: ";
 write string(STDOUT FILENO, prompt);
 read string(STDIN FILENO, filename, sizeof(filename));
  filename[strcspn(filename, "\n")] = '\0';
 // Создаём разделяемую память
 int shm fd = shm open(SHM NAME, O CREAT | O RDWR, 0666);
 if (shm fd == -1) {
      write string(STDOUT FILENO, "Не удалось создать разделяемую
память\n");
     exit(EXIT FAILURE);
 ____£
 ftruncate(shm fd, BUFFER SIZE);
  char *shared memory = (char *)mmap(0, BUFFER SIZE, PROT READ |
PROT WRITE, MAP SHARED, shm fd, 0);
 if (shared memory == MAP FAILED) {
     write string(STDOUT FILENO, "Не удалось отобразить
разделяемую памятьn");
```

```
exit(EXIT FAILURE);
 // Создаем семафоры
  sem t *sem parent = sem open(SEM NAME PARENT, O CREAT, 0666,
0);
  sem t *sem child = sem open(SEM NAME CHILD, O CREAT, 0666, 0);
 if (sem parent == SEM FAILED || sem child == SEM FAILED) {
      write string(STDOUT FILENO, "Не удалось создать
<u>семафоры\n");</u>
     exit(EXIT FAILURE);
 pid t child pid = fork();
 if (child pid == -1) {
      write string(STDOUT FILENO, "Не удалось создать
процесс\n");
      exit(EXIT FAILURE);
  _}
  if (child pid == 0) {
     char *const args[] = {CLIENT PROGRAM NAME, filename, NULL};
      execv(CLIENT PROGRAM NAME, args);
      const char msq[] = "error: failed to exec into new
executable image\n";
      write(STDERR FILENO, msq, sizeof(msq));
```

```
exit(EXIT FAILURE);
 } else {
      char input[BUFFER SIZE];
     const char *input_prompt = "Введите строки (CTRL+D для
<u> завершения):\n";</u>
     write string(STDOUT FILENO, input prompt);
     <u>while (1) {</u>
          ssize t count = read(STDIN FILENO, input, sizeof(input)
- 1);
         <u>if (count <= 0) {</u>
      break;
       input[count] = ' \setminus 0';
       input[strcspn(input, "\n")] = '\0';
        strncpy(shared memory, input, BUFFER SIZE);
       sem post(sem child);
       sem_wait(sem_parent);
      strncpy(shared memory, "", BUFFER SIZE);
      sem post(sem child);
      wait(NULL);
      munmap(shared memory, BUFFER SIZE);
```

```
shm_unlink(SHM_NAME);

sem_close(sem_parent);

sem_close(sem_child);

sem_unlink(SEM_NAME_PARENT);

sem_unlink(SEM_NAME_CHILD);

}

return_0;
```

child.c

```
#include <stdio.h>
#include <stdib.h>
#include <unistd.h>
#include <string.h>
#include <ctype.h>
#include <sys/mman.h>
#include <fcntl.h>
#include <semaphore.h>
#include <semaphore.h>
#define BUFFER_SIZE 1024
#define SHM_NAME "/my_shared_memory"
#define SEM_NAME_PARENT "/my_semaphore_parent"
```

```
#define SEM NAME CHILD "/my semaphore child"
int main(int argc, char *argv[]) {
 // Открываем разделяемую память
 int shm fd = shm open(SHM NAME, O RDWR, 0666);
 if (shm fd == -1) {
     write(STDOUT FILENO, "Не удалось открыть разделяемую
памятьn",
            sizeof("Не удалось открыть разделяемую память <math>n"));
     exit(EXIT FAILURE);
 }
 // Отображаем ее
  char *shared memory = (char *)mmap(0, BUFFER SIZE, PROT READ |
PROT WRITE, MAP SHARED, shm fd, 0);
  if (shared memory == MAP FAILED) {
      write(STDOUT FILENO, "Не удалось отобразить разделяемую
память\п",
            sizeof("Не удалось отобразить разделяемую
память\n"));
     exit(EXIT FAILURE);
 }
 // Открываем семафоры
  sem t *sem parent = sem open(SEM NAME PARENT, 0);
  sem t *sem child = sem open(SEM NAME CHILD, 0);
  if (sem parent == SEM FAILED || sem child == SEM FAILED) {
```

```
write (STDOUT FILENO, "Не удалось открыть семафоры\n",
           sizeof("He удалось открыть семафоры\n"));
     exit(EXIT FAILURE);
 }
  if (argc < 2) {
    write(STDOUT FILENO, "Не передано имя файла\n",
       sizeof("Не передано имя файла\n"));
 exit(EXIT FAILURE);
 ____£
  int file descriptor = open(argv[1], O WRONLY | O CREAT |
O TRUNC, S IRUSR | S IWUSR);
 if (file descriptor == -1) {
     write(STDOUT FILENO, "Не удалось открыть файл\n",
        sizeof("He удалось открыть файл\n"));
    exit(EXIT FAILURE);
  <u>}</u>
  char input[BUFFER SIZE];
  char output msq[BUFFER SIZE];
 while (1) {
   // waitиим сигnal от родителя
     sem wait(sem child);
      // Читаем строку из разделяемой памяти
```

```
strncpy(input, shared memory, BUFFER SIZE);
      input[BUFFER SIZE - 1] = '\0'; // гарантируем завершающий
      if (strlen(input) == 0) {
          break; //конец ввода: (
   }
      int len = strlen(input);
     <u>if (len > 0 && (input[len - 1] == ';' || input[len - 1] ==</u>
<mark>'.'</mark>)) {
         <u>snprintf(output msg, sizeof(output msg), "Валидная</u>
cтрока: %s\n", input);
         write(STDOUT_FILENO, output_msg, strlen(output_msg));
        write(file descriptor, output msg, strlen(output msg));
    } else {
      snprintf(output msg, sizeof(output msg), "Не валидная
cтрока: %s\n", input);
      write(STDOUT_FILENO, output_msg, strlen(output_msg));
        write(file descriptor, output msg, strlen(output msg));
 }
     sem post(sem parent);
 __}
 // убираемся
  munmap(shared memory, BUFFER SIZE);
```

```
close(shm_fd);
sem_close(sem_parent);
sem_close(sem_child);
close(file_descriptor);
return_0;
```

Протокол работы программы

Программа организует взаимодействие двух процессов — родительского и дочернего — через разделяемую память и семафоры. Это позволяет родительскому процессу передавать строки текста дочернему для их обработки и записи результатов в файл. Сначала родительский процесс запрашивает у пользователя имя файла, который будет использоваться для записи. Затем создается объект разделяемой памяти, который будет служить буфером для обмена данными между процессами, и два именованных семафора: один для управления доступом родительского процесса, другой — дочернего.

После инициализации родительский процесс с помощью системного вызова fork создает дочерний процесс. В дочернем процессе выполняется программа child.c, используя вызов execv. Теперь дочерний процесс отвечает за обработку строк, полученных от родительского.

Родительский процесс запрашивает у пользователя строки текста. Каждая введенная строка записывается в разделяемую память, а затем отправляется сигнал через семафор дочернему процессу, уведомляя его о том, что данные готовы. Дочерний процесс ожидает этот сигнал, читает строку из разделяемой памяти, проверяет её на валидность (валидной считается строка, заканчивающаяся на ; или .) и записывает результат проверки в указанный файл. После обработки строки дочерний процесс отправляет сигнал через семафор родительскому процессу, уведомляя о своей готовности принять следующую строку.

Этот цикл продолжается, пока пользователь не завершит ввод (например, с помощью комбинации клавиш CTRL+D). Когда ввод завершается, родительский процесс записывает пустую строку в разделяемую память и отправляет сигнал дочернему процессу, уведомляя его о завершении работы. Дочерний процесс распознаёт пустую строку как команду завершения, закрывает файл, освобождает ресурсы и завершает свою работу. Родительский процесс ожидает завершения дочернего, после чего освобождает разделяемую память, закрывает и удаляет семафоры, а также завершает выполнение.

Тестирование:

romanmarkin@MacBook-Pro-Roman lab_3 % gcc child.c -o child romanmarkin@MacBook-Pro-Roman lab_3 % ./parent
Введите имя файла: оооо
Введите строки (CTRL+D для завершения):
КS VK SVB
Не валидная строка: KS VK SVB
JJjnsbkadv;;sdvb osetb.ng
Не валидная строка: JJjnsbkadv;;sdvb osetb.ng
wkj fbka fba;bfk oowb ;j s'ldb.
Валидная строка: wkj fbka fba;bfk oowb ;j s'ldb.
оabsfuvjhv nsv;
Валидная строка: oabsfuvjhv nsv;
romanmarkin@MacBook-Pro-Roman lab_3 %

Dtruss:

```
sudo dtruss ./parent //аналог strace для macOs
                    stat64("/usr/lib/libsasl2.2.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MultiverseSupport.framework/Versions/A/MultiverseSupport(0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Multiversesupport.framework/Versions/A/Multiversesupport(0",0x7FF7B787EA90,0x0)" = -1 2
stat64("/System/Library/PrivateFrameworks/MultiverseSupport.framework/Versions/A/MultiverseSupport(0", 0x7FF7B787EB20, 0x0)
                    stat64("/usr/lib/libParallelCompression.dylib\0", 0x7FF7B787EB20, 0x0)
0 \times 7 = \frac{164}{10} = \frac{164}{1
                    stat64("/usr/lib/libParallelCompression.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                      = -1 2
0 \times 7 = \frac{164}{8} = \frac{164}{9} = \frac{164}{9
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreMediaIO.fram
ework/Versions/A/CoreMediaIO(0,0x7FF7B787EAAO,0x0)
\frac{1}{0} stat64("/System/Library/Frameworks/CoreMediaIO.framework/Versions/A/CoreMediaIO\0", 0x7FF7B787EB20, 0x0) = -1 2
                    stat64("/usr/lib/libSMC.dylib\0", 0x7FF7B787EB20, 0x0)
                   0x0)
                    stat64("/usr/lib/libSMC.dylib\0", 0x7FF7B787EB20, 0x0)
                    stat64("/usr/lib/libcups.2.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                        = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcups.2.dylib\0",
0x7FF7B787EAD0, 0x0)
                    stat64("/usr/lib/libcups.2.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                        = -1 2
ox7FF7B787EB20, 0x0)
ox7FF7B787EB20, 0x0)
ox7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/NetAuth.f
ramework/Versions/A/NetAuth\0", 0x/FF/B/8/EAAO, 0x0) = -1 2
\frac{1}{0} state4("/System/Library/PrivateFrameworks/NetAuth.framework/Versions/A/NetAuth\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServi6x7ff78787EA70.0x0)
colorSyncLegacy:framework/Versions/A/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/
colorSyncLegacy\0,0x7FF7B787EB20,0x0)
QD.framework/Versions/A/QD\0", 0x7FF7B787EB20, 0x0)
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServices_1framework/Versions/A/Frameworks/QD.frameworks/QD.frameworks/ApplicationServi
QD.framework/Versions/A/QD\0, 0x7FF7B787EB20, 0x0)
0x7FF7B78/EB20, 0x0) Usbrary/PrivateFrameworks/perfdata.framework/Versions/A/perfdata\0",
framework/Versions/A/perfdata(0,0x/FF/B/8/EAA0,0x/0)
0x7FF7B787EB20, 0x0) = -1 2 experience of the state of th
               stat64("/usr/lib/libperfcheck.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EAD0, System/Volumes/Preboot/Cryptexes/OS/usr/lib/libperfcheck.dylib\0",
               stat64("/usr/lib/libperfcheck.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EB20, System/Library/Frameworks/Kerberos.framework/Versions/A/Kerberos\0",
rk/Versions/A/Kerberos/07/6x7Ff/B/8/EAB0, 0x0)
0x7FF7B787EB20, System/Library/Frameworks/Kerberos.framework/Versions/A/Kerberos\0",
0x0) stat64("/System/Library/Frameworks/GSS.framework/Versions/A/GSS\0", 0x7FF7B787EB20,
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/GSS.framework/Versions/A/GSS\0", 0x/FF/B/87EAB0, 0x0)
0x0) stat64("/System/Library/Frameworks/GSS.framework/Versions/A/GSS\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CommonAuth h.framework/Versions/A/CommonAuth %", 0x7FF/B787EAAO, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CommonAuth.framework/Versions/A/CommonAuth\0"
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MobileAss
et.framework/versions/A/MobileAsset\0",0x7FF7B787EAA0,0x0)
0", 0x/FF/B/87EB20, 0x0) estat64("/System/Library/PrivateFrameworks/MobileAsset.framework/Versions/A/MobileAsset
0", 0x/FF/B/8/EB20, 0x0) e -1 2 stat64("/System/Library/PrivateFrameworks/CacheDelete.framework/Versions/A/CacheDelete
te.framework/Versions/A/CacheDelete\0, 0x/FF7B/8/EAA0, 0x0) rary/PrivateFrameworks/CacheDele
0", 0x/FF/B/8/EB20, 0x0) erollibrary/PrivateFrameworks/CacheDelete.framework/Versions/A/CacheDelete
ircle\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/KeychainCircle\0", 0x7FFB787EAA0, 0x0)
= -1 2
ircle\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CorePhone Numbers.framework/Versions/A/CorePhoneNumbers\0", 0x7FF7B787EA90, 0x0) = -1 2
neNumbers\0, 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/Versions/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CorePhoneNumbers/A/CoreP
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ion\0", 0x/FF7B787EB20, 0x0)
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e -1 2
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                 stat64("/usr/lib/swift/libswiftDispatch.dylib\0", 0x7FF7B787EB20, 0x0)
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e -1 2
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dServices.framework/Versions/A/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/FrontBoardServices/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/PrivateFrameworks/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Library/System/Libra
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ces\0", 0x7FF7B787EB20, 0x0)
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ces\0", 0x7FF7B787EB20, 0x0)
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ramework/Versions/A/CryptoTokenKit(0", 0x/FF/B/87EAAO, 0x0) Frameworks/CryptoTokenKit.f
", 0x7FF7B787EB20, 0x0) "rameworks/CryptoTokenKit.framework/Versions/A/CryptoTokenKit\0
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ion.framework/Versions/A/LocalAuthentication\of, 0x/FF7B787EA90, 0x0)
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amework/Versions/A/SharedUtils\0", 0x/FF7B78/EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0", 0x7FFB787EAA0, 0x0) = -1 2
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k/Versions/A/Intents(0", 0x7FF7B787EAB0, 0x0) = -1 2
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\texttt{0x0}) \quad \begin{array}{l} \texttt{stat64("/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP} @ \texttt{0x0}) \end{array}
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stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/Tru
stEvaluationAgent\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.framework/VersionAgent.frame
stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DiskImage
s.framework/Versions/A/DiskImages\0", 0x7FF/B787EAAO, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages\0"
= -1 2
0 \times 7 = 164 ("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0", 0 \times 7 = 12
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2 cs. stat64("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0",
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emoteServiceDiscovery\0", 0X/FF/B/87EB20, 0X0)
viceDiscovery. Framework/Versions/A/RemoteServiceDiscovery. brancheser with the state of the sta
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stat64("/System/Library/PrivateFrameworks/RemoteXPC.framework/Versions/A/RemoteXPC\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RemoteXPC
.framework/Versions/A/RemoteXPC\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RemoteXPC.framework/Versions/A/RemoteXPC\0",
0x7FF7B787EB20, 0x0)
0 \times 7 FF 7 B 7 8 7 EB 20, 0 \times 0) | Comparison of the second of the 
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0,0x7FF7B78/EAAO,0x0)
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                stat64("/usr/lib/libcsfde.dylib\0", 0x7FF7B787EB20, 0x0)
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                                                                                                                                                                                                                                                  = -1 2
                stat64("/usr/lib/libcurl.4.dylib\0", 0x7FF7B787EB20, 0x0)
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0x7FF7B787EAD0, 0x0)
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ox7FF7B787EB20, 0x0 | ibrary/PrivateFrameworks/AppSupport.framework/Versions/A/AppSupport\0"
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t.framework/Versions/A/AppSupport(0", 0x/FF/B78/EAAO, 0x0)
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Services\0", 0x7FF7B78/EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Application
Services\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch(0",0x7FF7B787EA80,0x0)
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B787EB20, 0x0) = -1 2
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleAccount(0, 0x7FF/B787EAA0, 0x0) = -1 2
/AppleIDSSOAuthentication\0,0x7FF7B787EB20,0x0) = -1 2
OAuthentication: framework/Versions/A/AppleIDSSOAuthentication() / Ox/FF78787EA80, 0x0)
/AppleIDSSOAuthentication\0', 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitCBridging.framework/Versions/A/CryptoKitCBridging(0,0x7FF7B787EB20,0x0)
cBridging.framework/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CryptoKitCBridging
oKitCBridging(0,0x7FF7B787EB20,0x0)
oxy.dylib\0,"/System/library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalPr
rk/Versions/A/Libraries/libHeimdalProxy.dylib\0,0x7FF7B787EA90, 0x0)
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0 \times 7 = 164 (\text{System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0 \times 7 = 12 (\text{System/Library/Framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit\0", 0 \times 7 = 12 (\text{System/Library/Framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit\0", 0 \times 7 = 12 (\text{System/Library/Framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/Versions/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A/AudioUnit.framework/A
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7Ff/B/87EAB0, 0x0)
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etActivityScheduler(%, 0x7FF7B787EB20, 0x0) etActivityScheduler.framework/Versions/A/Du
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0x7FF7B787EAC0, 0x0) Preboot/Cryptexes/OS/usr/lib/swift/libswiftObjectiveC.dylib\0",
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ork/Versions/A/C2\0", 0x/FF7B787EAB0, 0x0) ork/Versions/A/C2\0", 0x/FF7B787EAB0, 0x0)
0x7FF7B787EB20, 0x0) Usbrary/PrivateFrameworks/C2.framework/Versions/A/C2\0",
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/QuickLookThumbnailing", 0x7FF7B787EA90, 0x0 (%x) 0x7FF7B77EA90, 0x0 (%x) 0x7FF7B7A90, 0x
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0 \times 7 FF 7B 78 7EB 20, 0 \times 0) Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0 \times 7 FF 7B 78 7EB 20, 0 \times 0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0x7FFB787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0x7FF7B787EB20, 0x0)
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stat64("/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0",
0x7FF7B787EB20, 0x0)
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urfaceAccelerator\"/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/IOS
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antServices(0",0x7FF7B787EB20,0x0)
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antServices(0",0x7FF7B787EB20,0x0)
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e.framework/Versions/A/FMCoreLite\0", 0x/FF/B78/EAA0, 0x0)
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stat64("/usr/lib/libtidy.A.dylib\0", 0x7FF7B787EB20, 0x0)
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e.framework/Versions/A/AVFCapture\0", 0x7FF/B787EAA0, 0x0)
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oactiveEventTracker\0", 0x7FF7B787EB20, 0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/LoggingSupport.framework/Versions/A/LoggingSupport\0", 0x7FFB787EAA0, 0x0) = -12
pport(0", 0x7FF7B787EB20, 0x0) PrivateFrameworks/LoggingSupport.framework/Versions/A/LoggingSupport
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stat64("/System/Library/PrivateFrameworks/MallocStackLogging.framework/Versions/A/MallocStackLogging(0,0x7FF7B787EB20,0x0)" = -1 2
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mework/Versions/A/Trial\0, 0x7FF7B787EAB0, 0x0)
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stat64("/System/Library/PrivateFrameworks/CaptiveNetwork.framework/Versions/A/CaptiveNetwork\0", 0x7FF7B787EB20, 0x0)
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twork\0", 0x7FF7B787EB20, 0x0) rivateFrameworks/CaptiveNetwork.framework/Versions/A/CaptiveNetwork
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stat64("/System/Library/PrivateFrameworks/MSUDataAccessor.framework/Versions/A/MSUDataAccessor.framework/Versions/A/MSUDataA
A/SoftwareUpdateCoreSupport(0", 0x/FF7B78/EB20, 0x0)
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                                  stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B787EB20, 0x0)
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                                  stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B787EB20, 0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Attribute
Graph.framework/Versions/A/AttributeGraph\0", 0x7FFB787EAA0, 0x0)
Graph\0", 0x7FF7B787EB20, 0x0) = -1 2
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\frac{1}{2} stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Vision.framework
/libfaceCore.dylib\0", 0x/FF/B78/EAB0, 0x0) = -1 2
\frac{1}{0} stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
gnition(0", 0x7FF7B787EB20, 0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition(0", 0x7FF7B787EA90, 0x0) = -1 2
gnition(0,40) gnition(0,4
0x7FF7B787EB20, 0x0) = -1 2 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0", 0x/FF/B/8/EAAO, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/BiomeFoundation.framework/Versions/A/BiomeFoundation(0",0x7Ff7B787EB20,0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam\0", 0x/FF/B78/EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam\0" = -1 2
          stat64("/usr/lib/swift/libswiftMetal.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                               = -12
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e -1 2
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                                                                                                                                                               = -1 2
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0x7FF7B787EB20, 0x0) = -1 2 0x7FF7B787EB20, 0x0)
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mework/Versions/A/FTAWD\0", 0x7FF/B787EAB0, 0x0)
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cs.framework/versions/A/OSAnalytics\0",0x7FF7B787EAA0,0x0)
0", 0x/FF/B787EB20, 0x0)
or stat64("/System/Library/PrivateFrameworks/OSAnalytics.framework/Versions/A/OSAnalytics\
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stat64("/System/Library/PrivateFrameworks/NetworkServiceProxy.framework/Versions/A/NetworkServiceProxy(0", 0x/FF/B/87EB20, 0x0) = -1 2
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ntity.framework/Versions/A/DeviceIdentity\0", 0x7FFB787EAA0, 0x0)
ntity\0",0x7FFB88EB20,0x0) rivateFrameworks/DeviceIdentity.framework/Versions/A/DeviceIde
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/SymptomReporter(0", 0x7FF7B787EA90, 0x0)
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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/
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                  stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B787EB20, 0x0)
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                  stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
0x7FF7B787EB20, 0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSymbolication(0",0x7FF7B787EA90,0x0)" = -1 2
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                  stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftOSLog.dylib\0",
0x7FF7B787EAD0, 0x0)
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stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
0x7FF7B787EB20, 0x0)
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mework/Versions/A/Netrb\0, 0x7FF7B787EAB0, 0x0)
stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
0x7FF7B787EB20, 0x0)
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versions/A/OSLog(", 0x/FF7B787EAB0, 0x0)
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ternalSwiftProtobuf("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/In
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stat64("/System/Library/PrivateFrameworks/HIDDisplay.framework/Versions/A/HIDDisplay\0"
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/HIDDispla
y.framework/Versions/A/HIDDisplay\0", 0x/FF/B78/EAA0, 0x0)
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ork/Versions/A/CryptoKit\0,0x7Ff7B/87EAB0,0x0)
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                   stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B787EB20, 0x0)
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ags.framework/Versions/A/FeatureFlags(0,75) exes/05/System/Library/PrivateFrameworks/FeatureFlags(0,75) exes/05/System/Library/FeatureFlags(0,75) exes/05/System/Library/FeatureFlags(0,75
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oPeer\0", 0x7FFBB787EB20, 0x0) = -1 2
opeer.framework/Versions/A/WiFiPeerToPeer\0,0x7FfB787EAA0,0x0)
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igProfileHelper(0", 0x/FF/B787EB20, 0x0)
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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ANECompil
er.framework/versions/A/ANECompiler\0",0x7FF7B787EAA0,0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework
/Versions/A/Libraries/libCorefSCache.dylib(), 0x7FF7B787EA90, 0x0)
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stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCoreVMClien
t.dylib(0",0x7Ff7B787EB20,0x0)
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t.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0 \times 7 FF 7B 78 7EB 20, System/Library/Frameworks/OpenGL.framework/Versions/A/OpenGL\0", 0 \times 7 FF 7B 78 7EB 20, 0 \times 0)
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upport.dylib\0", 0x/FF/B787EB20, 0x0) = -1 2
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rk/Versions/A/AVFAudio\0", 0x7FF7B787EAB0, 0x0)
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undation\0,0x7FF7B78/EB20,0x0) stat64("/System/Library/Frameworks/ExtensionFoundation.framework/Versions/A/ExtensionFo
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yData.dylib\0", 0x7FF7B787EB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FontServices.framework/libx1FontStaticRegistryData.dylib(0",0x7FF7B787EA90,0x0)" = -1 2 yData.dylib\0", 0x7FF7B787EB20, 0x0)
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efunctions.framework/Versions/A/GenerativeFunctions/0, 0x7FF7B787EA90, 0x0) rativeFunctions(0", 0x/FF/B/87EB20, 0x0) = -1 2 ons/A/GenerativeFunctionsFoundation\0,0x/FF7B/8/EB20,0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Generative eFunctionsFoundation\0", 0x/FF/B/87EA80, stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsFoundation.framework/Versions/A/GenerativeFunctionsFoundation\0", 0x/FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsInstrumentation.framework/Versions/A/GenerativeFunctionsInstrumentation\0", 0x7FF/B787EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GenerativeFrameworks/GenerativeFunctionsInstrumentation.framework/Versions/A/GenerativeFunctionsInstrumentation()", stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsInstrumentation.framework/Versions/A/GenerativeFunctionsInstrumentation(0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/GenerativeModels.framework/Versions/A/GenerativeModels/A/Gene stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GenerativeModels.framework/Versions/A/GenerativeModels\0", 0x7FF7B787EA90, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/GenerativeModels.framework/Versions/A/GenerativeModels/A/Gene stat64("/System/Library/PrivateFrameworks/GenerativeModelsFoundation.framework/Versions/A/GenerativeModelsFoundation\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GenerativeModelsFoundation.framework/Versions/A/GenerativeModelsFoundation\0", 0x7FF/B/87EA80, 0x0) stat64("/System/Library/PrivateFrameworks/GenerativeModelsFoundation.framework/Versions/A/GenerativeModelsFoundation\0", 0x7FF/B/87EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/GeoServicesCore.framework/Versions/A/GeoServicesCore(0",0x7FF7B787EB20,0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GeoServicesCore(0",0x7FF7B787EA90,0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/GeoServicesCore.framework/Versions/A/GeoServicesCore(0",0x7FF7B787EB20,0x0) = -1 2 $stat64("/System/Library/PrivateFrameworks/I080211.framework/Versions/A/I080211\0", 0x7FF7B787EB20, 0x0) = -1 2$ stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IO80211.framework/Versions/A/IO80211\0", 0x7FF7B787EAAO, 0x0) = -1 2 uration(0", System/Library/PrivateFrameworks/IPConfiguration.framework/Versions/A/IPConfiguration(0", 0x7FF7B787EB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IPConfiguration.framework/Versions/A/IPConfiguration(0",0x7FF7B787EA90,0x0) uration(%, %, stem/library/PrivateFrameworks/IPConfiguration.framework/Versions/A/IPConfig stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Installed ContentLibrary.framework/Versions/A/InstalledContentLibrary(0",0x7FF7B787EA80,0x0) stat64("/System/Library/PrivateFrameworks/InstalledContentLibrary.framework/Versions/A/
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framework/Versions/A/PromptKit\0", 0x/FF/B/8/EAAO, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal(0,0x7FF/B/8/EB20,0x0) ninternal.framework/Versions/A/ReflectionInternal/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal/System/Library/PrivateFrameworks/ReflectionInternal/System/Library/PrivateFrameworks/ReflectionInternal/System/Library/PrivateFrameworks/ReflectionInternal/System/Versions/A/ReflectionInternal/System/Library/PrivateFrameworks/Reflection/System/Library/PrivateFrameworks/Reflection/System/Library/PrivateFrameworks/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Reflection/System/Library/Refl stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal.framework/A/ReflectionInternal. stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeI
nternal(0",0x7F7B787EB20,0x0)
= -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeInternal(", 0x7FF7B787EA90, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeI
nternal(0",0x7FF7B787EB20,0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versions
/A/SensitiveContentAnalysisML\0, 0x7FF7B/87EB20, 0x0) Content Analysis MC. framework / Preboot / Cryptexes / OS/System / Library / Private Framework / Sensitive stat64("/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versions/A/SensitiveContentAnalysisML\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/SentencePieceInternal(0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/SentencePieceInternal(", 0x7FF7B787EA90, 0x0)" ntencePieceInternal("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/Se ics\0", 0x7FF7B787EB20, 0x0) PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalyt tics.stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriAnalytics(", 0x7FF/B787EAAA, 0x0)" = -1 2 ics\0", 0x/PF7B787EB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCross
DeviceArbitration.framework/Versions/A/SiriCrossDeviceArbitration(0", 0x7FF/B/87EA80, 0x0) stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Versions
/A/SiriCrossDeviceArbitration(0", 0x/FF/B/87EB20, 0x0) versions/A/SiricrossDeviceArbitrationFeedback(%); 0x7FF7B787EB20, 0x0) DeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback(0",
0x7FF7B787EA70, 0x0) stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SiriPowerInstrumentation, framework/Versions/A
/SiriPowerInstrumentation(0, 0x/FF7B78/EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFramework/SiriPower
Instrumentation (0) / Ox/FF78787EA80, 0x0 / Ox/FF7878EA80, 0x0 / Ox/FF788EA80, 0x0 / O /SiriPowerInstrumentation\0', 0x/FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0", 0x/FF/B/8/EAAO, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/SiriTTSService.framework/Versions/A/SiriTTSService.framework/A/SiriTTSService.fram rvice.framework/Versions/A/SiriTTSService\0,0x/FfB787EAA0,0x0) rvice \ 0 , 0x7ff B / 8 / EB 20 , 0x0 \ rvice \ 0 , 0x7ff B / 8 / EB 20 , 0x0 \ rvice \ 0 , 0x7ff B / 8 / EB 20 , 0x0 \ rvice \ 0 , 0x0 \ stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/StreamingExtractor.framework/A/Stream Extractor.framework/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/StreamingExtractor stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/StreamingExtractor.framework/A/Stream stat64("/System/Library/PrivateFrameworks/Symptoms, framework/Versions/A/Frameworks/Symptoms, frameworks/Symptoms, stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SymptomAnalytics.framework/Versions/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.framework/A/SymptomAnalytics.fram ilspinSymbolication() , 0x7FF7B787EB20, 0x0) ilspinSymbolication.framework/Versions/A/Ta ymbolication.framework/Versions/A/TailspinSymbolication(), 0x7ff7B787EA90, 0x0) with the state of the state stat64("/System/Library/PrivateFrameworks/TailspinSymbolication.framework/Versions/A/TailspinSymbolication\0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Library/PrivateFrameworks/Tightbeam.framework/Versions/A/Tightbeam\0",
0x7FF7B787EB20, 0x0) .framework/Versions/A/Tightbeam(0,0x/FF/B/8/EAAO,0x0) stat64("/System/Library/PrivateFrameworks/TokenGeneration.framework/Versions/A/TokenGeneration.framework/A/TokenGener stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TokenGene ration.framework/Versions/A/TokenGeneration(0",0x7FF7B787EA90,0x0) stat64("/System/Library/PrivateFrameworks/TokenGeneration.framework/Versions/A/TokenGeneration(0",0x7F7B787EB20,0x0)" = -1 2 stat64("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/TokenGenerationCore(0", 0x7FF7B787EB20, 0x0) = -1 2 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/TokenGenerationCore(0", 0x7FF7B787EA90, 0x0) = nGenerationCore(0", 0x/FF/B/87EB20, 0x0) state4("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/Toke ifiedAssetFramework\0, privateFrameworks/UnifiedAssetFramework.framework/Versions/A/Un setFramework. Framework versions A Unified Asset Framework (%) System (1) brary / Private Framework versions A Unified Asset Framework (%) System (%) Syst stat64("/System/Library/PrivateFrameworks/UnifiedAssetFramework.framework/Versions/A/UnifiedAssetFramework(0", 0x7FF7B787EB20, 0x0) = -1 2 h\0", stat64("/System/Library/PrivateFrameworks/VectorSearch.framework/Versions/A/VectorSearch.framework/A/Vector stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/VectorSearch.framework/Versions/A/VectorSearch\0,0x7FF7B787EAA0,0x0) = -1 2 h\0", stat64("/System/Library/PrivateFrameworks/VectorSearch.framework/Versions/A/VectorSearch.framework/A/VectorSearch.framework/Versions/A/VectorSearch.framework/Versions/A/VectorSearch.framework/Versions/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSearch.framework/A/VectorSe rk/yersions/A/VideoToolboxParavirtualizationSupport.frameworks/VideoToolboxParavirtual stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/VideoToolboxParavirtualizationSupport.framework/Versions/A/VideoToolboxParavirtualizationSupport(0", 0x7FF7B787EA70, 0x0)" = -12 rk/yersions/A/VideoToolboxParavirtualizationSupport.frameworks/VideoToolboxParavirtualizationSupport.frameworks/VideoToolboxParavirtualizationSupport(0°, 0x/FF7B787EB20, 0x0)

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/VisionCore.framework/VersionS/A/VisionCore\0", 0%/FF/B/8/EAA0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/XPCSupport
t.framework/Versions/A/XPCSupport(0", 0x7FF/B787EAAB, 0x0)
stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                  = -1 2
0x7FF7B787EAC0, 0x0) = -1 2 0x7FF7B787EAC0, 0x0) = -1 2 0x7FF7B787EAC0, 0x0)
         stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                  = -1 2
         stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B787EB20, 0x0)
         stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                  = -1 2
0x7FF7B787EAD0, 0x0) = -1 2 0x7FF7B787EAD0, 0x0)
         stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                  = -1 2
         stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
\frac{\text{stat64}(\text{"}/\text{System}/\text{Volumes}/\text{Preboot}/\text{Cryptexes}/\text{OS}/\text{usr}/\text{lib}/\text{lib}\text{Rosetta.dylib}/\text{0",}}{\text{0x7FF7B787EAD0, 0x0}}
         stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
         stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libTLE.dylib\0", 0x7FF7B787EAD0, = -1.2
         stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B787EB20, 0x0)
         stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
0x7FF7B787EAD0, 0x0)
Ox7FF7B787EAD0, 0x0)
         stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
         stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B787EB20, 0x0)
0 \times 7 = \frac{164}{8} = \frac{164}{9} = \frac{164}{9
         stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
         stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libmrc.dylib\0", 0x7FF7B787EAD0, = -1 2
         stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                       = -1 2
         stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B78/EAD0, 0x0) Oxor/lib/libnwswifttls.dylib\0",
         stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                    = -1 2
         stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B787EB20, 0x0)
ox7FF7B787EAD0, 0x0)
ox7FF7B787EAD0, 0x0)
ox7FF7B787EAD0, 0x0)
         stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EACO, 0x0) = -1 Z
```

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= -1 \frac{1}{2} \frac{1}{2}
               stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
0x7FF7B787EAC0, 0x0) = -1 2 cs. state4("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftMLCompute.dylib\0",
               stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B787EB20, 0x0)
, \text{ 0x7FF/B/8/EACO}, \text{ 0x0}) \\ \text{Preboot/Cryptexes/OS/usr/lib/swift/libswiftObservation.dylib} \\ \text{0} \\
= -1 2 stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 5tat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B787EB20, 0x0)
b\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftSynchronization.dyli = -1 2
stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B787EB20, 0x0)
               stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
\frac{\text{stat64}}{\text{0x7FF7B787EAD0}}, 0x0) Preboot/Cryptexes/OS/usr/lib/swift/libswiftSystem.dylib\0",
               stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
= -1 \frac{1}{2} stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B787EB20, 0x0)
\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Builtin_float.dylib = -1 2
= -1 stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 \frac{1}{2} stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EACO, 0x0) = 1 2 concurrency.dylib\0
= -1 2 stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EACO, 0x0) umes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_RegexParser.dylib\0
= -1 2 stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_StringProcessing.dy
lib\0", 0x7FF7B787EAC0, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B787EB20, 0x0)
               stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_errno.dylib\0",
0x7FF7B787EAD0, 0x0)
               stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
               stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_math.dylib\0",
0x7FF7B787EAD0, 0x0)
                                                                                                                                                                                                                                                    = -1 2
               stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B787EB20, 0x0)
               stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
ox7FF7B787EAD0, 0x0)
Ox7FF7B787EAD0, 0x0)
               stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                   = -1 2
               stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                    = -1 2
```

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stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
                    stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
                    stat64("/usr/lib/swift/libswiftsys time.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
0 \times 7 = \frac{164}{8} = \frac{164}{8
                    stat64("/usr/lib/swift/libswiftsys time.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
                    stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
0 \times 7 = \frac{164}{8} = \frac{164}{8
                    stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B787EB20, 0x0)
                                                                                                                                                                                                                                                                                                                                       = -1 2
= \frac{1}{2} $\forall tat64(\"/usr/lib/system/libsystem_darwindirectory.dylib\0\", \0x7FF7B787EB20, \0x0)
ylib\@; stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.d
stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 \frac{1}{2} \frac{1
\0", stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_eligibility.dylib
stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B787EB20, 0x0)
0", 0x/FF/B/87EACO, 0x0)
o", 0x/FF/B/87EACO, 0x0)
o", 0x/FF/B/87EACO, 0x0)
stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B787EB20, 0x0)
                    open("/Users/romanmarkin/Documents/OS_labs/lab_3/parent\0", 0x0, 0x0)
                                                                                                                                                                                                                                                                                                                                        = 30
                    __mac_syscall(0x7FF819E34F23, 0x2, 0x7FF7B787F250)
                                                                                                                                                                                                                                                                           = 0 0
                   map_with_linking_np(0x7FF7B787F1A0, 0x1, 0x7FF7B787F1D0)
                                                                                                                                                                                                                                                                                                         = -1 22
                    close(0x3)
                    mprotect(0x108671000, 0x4000, 0x1)
                    open("/dev/dtracehelper\0", 0x2, 0x0)
                                                                                                                                                                                                              = 3 0
                    ioctl(0x3, 0x80086804, 0x7FF7B787E688)
                                                                                                                                                                                                              = 0.0
                    close(0x3)
                                                                                                                  = 0 0
                    shared region check np(0xFFFFFFFFFFFFFF, 0x0, 0x0)
                                                                                                                                                                                                                                                                          = 0.0
                    access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)
                                                                                                                                                                                                                                                                          = -1 2
                    bsdthread register(0x7FF81A13CBE0, 0x7FF81A13CBCC, 0x2000)
                                                                                                                                                                                                                                                                                                         = 1073742303 0
                    getpid(0x0, 0x0, 0x0)
                                                                                                                                                = 29748 0
                    shm open(0x7FF819FE0F42, 0x0, 0x19FDF388)
                                                                                                                                                                                                                                            = 3 0
                    fstat64(0x3, 0x7FF7B787EDB0, 0x0)
                                                                                                                                                                                                              = 0 0
                    mmap(0x0, 0x5000, 0x1, 0x40001, 0x3, 0x0)
                                                                                                                                                                                                                                            = 0 \times 10867 F000 0
                    close(0x3)
                    csops(0x7434, 0x0, 0x7FF7B787EEE4)
                                                                                                                                                                                                              = 0 0
                    ioctl(0x2, 0x4004667A, 0x7FF7B787EE74)
                                                                                                                                                                                                              = 0 0
                    mprotect(0x108689000, 0x1000, 0x0)
                    mprotect(0x108695000, 0x1000, 0x0)
                                                                                                                                                                                                              = 0.0
                    mprotect(0x108696000, 0x1000, 0x0)
                                                                                                                                                                                                              = 0 0
                    mprotect(0x1086A2000, 0x1000, 0x0)
                   mprotect(0x108684000, 0xC8, 0x1)
                                                                                                                                                                                                              = 0 0
                    mprotect(0x108684000, 0xC8, 0x3)
                                                                                                                                                                                                              = 0 0
```

```
mprotect(0x108684000, 0xC8, 0x1)
                                                   = 0 0
     mprotect(0x1086A3000, 0x1000, 0x1)
    mprotect(0x1086A4000, 0xC8, 0x1)
                                                   = 0 0
    mprotect(0x1086A4000, 0xC8, 0x3)
                                                   = 0 0
    mprotect(0x1086A4000, 0xC8, 0x1)
                                                     0 0
    mprotect(0x108684000, 0xC8, 0x3)
                                                   = 0.0
    mprotect(0x108684000, 0xC8, 0x1)
                                                   = 0 0
    mprotect(0x1086A3000, 0x1000, 0x3)
                                                   = 0 0
    mprotect(0x1086A3000, 0x1000, 0x1)
                                                   = 0 0
     issetugid(0x0, 0x0, 0x0)
                                           = 0 0
     getentropy(0x7FF7B787E5B0, 0x20, 0x0)
                                                   = 0 0
0x7FF7B787ED6C)
     access("/Users/romanmarkin/Documents/OS_labs/lab_3\0", 0x4, 0x0)
                                                                                 = 0 0
     open("/Users/romanmarkin/Documents/OS labs/lab 3\0", 0x0, 0x0)
                                                                          = 3 0
     fstat64(0x3, 0x7FEA0FF04470, 0x0)
                                                   = 0 0
     csrctl(0x0, 0x7FF7B787EF7C, 0x4)
                                                   = -1 1
     fgetattrlist(0x3, 0x7FF7B787F010, 0x7FF7B787EF90)
                                                                  = 0 0
     mac syscall(0x7FF8263EA555, 0x2, 0x7FF7B787EF90)
                                                                  = 0 0
     fcntl(0x3, 0x32, 0x7FF7B787EC60)
     close(0x3)
                            = 0 0
= -1 2pen("/Users/romanmarkin/Documents/OS_labs/lab_3/Info.plist\0", 0x0, 0x0)
     proc info(0x2, 0x7434, 0xD)
                                           = 64 0
     csops_audittoken(0x7434, 0x10, 0x7FF7B787EFB0)
                                                          = -1 22
```

Вывод

Программа демонстрирует взаимодействие между родительским и дочерним процессами с использованием разделяемой памяти и семафоров для синхронизации. Родительский процесс считывает строки от пользователя и передает их дочернему процессу через разделяемую память. Дочерний процесс обрабатывает строки и записывает их в файл, а также выводит соответствующие сообщения на экран.