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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:

В 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. mmap - 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. munmap - Снятие отображения разделяемой памяти.
13. shm_unlink - Удаление объекта разделяемой памяти.
14. sem_close - Закрывание дескриптора семафора.
15. sem_unlink - Удаление именованного семафора.
16. _exit или exit - Завершение процесса.

В child.c:

1. write - Запись данных в файловый дескриптор (stdout или файл).
2. shm_open - Открытие разделяемой памяти.
3. mmap - 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. open - Открытие или создание файла.
8. close - Закрывание файлового дескриптора.

9. munmap - Снятие отображения разделяемой памяти.

10. _exit или exit - 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);  
  
    // Отображаем разделяемую память  
  
    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 память\n");  
  
    }  
  
}
```

```
    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
семафоры\n");

    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 msg[] = "error: failed to exec into new
executable image\n";

    write(STDERR_FILENO, msg, sizeof(msg));
```

```
    exit(EXIT_FAILURE);

} else {

    char input[BUFFER_SIZE];

    const char *input_prompt = "Введите строки (CTRL+D для  
завершения):\n";

    write_string(STDOUT_FILENO, input_prompt);

    while (1) {

        ssize_t count = read(STDIN_FILENO, input, sizeof(input)  
- 1);

        if (count <= 0) {

            break;

        }

        input[count] = '\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 <stdlib.h>

#include <unistd.h>

#include <string.h>

#include <ctype.h>

#include <sys/mman.h>

#include <fcntl.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
        память\n",

            sizeof("Не удалось открыть разделяемую память\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\n",

            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("Не 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("Не удалось открыть файл\n"));

        exit(EXIT_FAILURE);
    }

    char input[BUFFER_SIZE];

    char output_msg[BUFFER_SIZE];

    while (1) {

        // waitим signal от родителя

        sem_wait(sem_child);

        // Читаем строку из разделяемой памяти
```

```

    strncpy(input, shared_memory, BUFFER_SIZE);

    input[BUFFER_SIZE - 1] = '\\0'; // гарантируем завершающий
НОЛЬ

    if (strlen(input) == 0) {

        break; //конец ввода:(

    }

    int len = strlen(input);

    if (len > 0 && (input[len - 1] == ';' || input[len - 1] ==
'.')) {

        snprintf(output_msg, sizeof(output_msg), "Валидная
строка: %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
строка: %s\\n", input);

        write(STDOUT_FILENO, output_msg, strlen(output_msg));

        write(file_descriptor, output_msg, strlen(output_msg));

    }

    // Сигналим родителю об обработке

    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.

```
romanmarkin@MacBook-Pro-Roman lab_3 % gcc child.c -o child
```

```
romanmarkin@MacBook-Pro-Roman lab_3 % ./parent
```

Введите имя файла: 0000

Введите строки (CTRL+D для завершения):

KS 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.

```
oabsfuvj hv ns v;
```

Валидная строка: oabsfuvj hv nsv;

romanmarkin@MacBook-Pro-Roman lab 3 %

Dtruss:

```
sudo dtruss ./parent //аналог strace для macOS
```

```
stat64("/usr/lib/libsasl2.2.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Library/PrivateFrameworks/MultiverseSupport.framework/Versions/A/Multiv
erseSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MultiverseSupport.framework/Versions/A/MultiverseSupport", 0x7FF7B787EA90, 0x0) = -1 2
```

```
stat64("/System/Library/PrivateFrameworks/MultiverseSupport.framework/Versions/A/Multiv
erseSupport", 0x7FFB787EB20, 0x0) = -1 2
```

```
stat64("/usr/lib/libParallelCompression.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libParallelCompression.dylib\0",
0x7FF7B787EAC0, 0x0) = -1
```

```
stat64("/usr/lib/libParallelCompression.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Library/Frameworks/CoreMediaIO.framework/Versions/A/CoreMediaIO\0",
0x7FFB787EB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreMediaIO.framework/Versions/A/CoreMediaIO", 0x7FFB787EAA0, 0x0) = -12
```

```
stat64("/System/Library/Frameworks/CoreMediaIO.framework/Versions/A/CoreMediaIO\0",
0x7FFB787EB20, 0x0) = -1 2
```

```
stat64("/usr/lib/libSMC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSMC.dylib\0", 0x7FF7B787EAD0,
```

```
stat64("/usr/lib/libSMC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/usr/lib/libcups.2.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcups.2.dylib\0",
0x7FFB787EAD0, 0x0) = -1 2
```

```
stat64("/usr/lib/libcups.2.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Library/PrivateFrameworks/NetAuth.framework/Versions/A/NetAuth\0",
0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/NetAuth.framework/Versions/A/NetAuth\0", 0x7FFB787EAA0, 0x0) = -1 2
```

```
stat64("/System/Library/PrivateFrameworks/NetAuth.framework/Versions/A/NetAuth\0",
0x7FF7B787EB20, 0x0) = -1 2
```

```
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/ColorSyncLegacy.framework/Versions/A/ColorSyncLegacy\0", 0x7FFB787EB20, 0x0) =
```

```
..._stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServi
```

```
0x7FF7B787EA70, 0x0)
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/
```

```
ColorSyncLegacy\Framework\Versions\A\ColorSyncLegacy\0", 0x7FFB787EB20, 0x0)
```

```

stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/
QD.framework/Versions/A/QD", 0x7FFB787EB20, 0x0) = -1

```

```

ces_1 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/QD.framework/Versions/A/QD\0", 0x7FF7B787EA80, 0x0)
QD.stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/QD.framework/Versions/A/QD\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/perfdata.framework/Versions/A/perfdata\0",
framework/Versions/A/perfdata\0", 0x7FF7B787EAA0, 0x0)
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/perfdata.framework/Versions/A/perfdata\0",
stat64("/usr/lib/libperfcheck.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libperfcheck.dylib\0",
stat64("/usr/lib/libperfcheck.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Kerberos\0",
rk/Versions/A/Kerberos\0", 0x7FF7B787EAB0, 0x0)
0x7FF7B787EB20, 0x0) stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Kerberos\0",
0x0) stat64("/System/Library/Frameworks/GSS.framework/Versions/A/GSS\0", 0x7FF7B787EB20,
rsions/A/GSS\0", 0x7FF7B787EAB0, 0x0)
0x0) stat64("/System/Library/Frameworks/GSS.framework/Versions/A/GSS\0", 0x7FF7B787EB20,
, 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/CommonAuth.framework/Versions/A/CommonAuth\0"
h.framework/Versions/A/CommonAuth\0", 0x7FF7B787EAA0, 0x0)
, 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/CommonAuth.framework/Versions/A/CommonAuth\0"
0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/MobileAsset.framework/Versions/A/MobileAsset\
et.framework/Versions/A/MobileAsset\0", 0x7FF7B787EAA0, 0x0)
0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/MobileAsset.framework/Versions/A/MobileAsset\
0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/CacheDelete.framework/Versions/A/CacheDelete\
te.framework/Versions/A/CacheDelete\0", 0x7FF7B787EAA0, 0x0)
0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/CacheDelete.framework/Versions/A/CacheDelete\
ircle\0", 0x7FF7B787EB20, 0x0)
ircle.framework/Versions/A/KeychainCircle\0", 0x7FF7B787EAA0, 0x0)
ircle\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/KeychainCircle.framework/Versions/A/KeychainC
neNumbers\0", 0x7FF7B787EB20, 0x0)
Numbers.framework/Versions/A/CorePhoneNumbers\0", 0x7FF7B787EA90, 0x0)
neNumbers\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/libTelephonyUtilDynamic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libTelephonyUtilDynamic.dylib\0",
stat64("/usr/lib/libTelephonyUtilDynamic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
on\0", 0x7FF7B787EB20, 0x0)
.framework/Versions/A/NetworkExtension\0", 0x7FF7B787EAA0, 0x0)
on\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/IDS.framework/Versions/A/IDS\0",

```

```

work/stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IDS.framework/Versions/A/IDS\0", 0x7FF7B787EAB0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/IDS.framework/Versions/A/IDS\0",
ion\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IDSFounda
tion.framework/Versions/A/IDSFoundation\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IDSFoundation.framework/Versions/A/IDSFoundat
ion\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/Sharing.framework/Versions/A/Sharing\0",
ramework/Versions/A/Sharing\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/Sharing.framework/Versions/A/Sharing\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/IOBluetooth.framework/Versions/A/IOBluetooth\0",
ework/Versions/A/IOBluetooth\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/IOBluetooth.framework/Versions/A/IOBluetooth\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ProtectedCloudStorage.framework/Versions/A/Pr
otectedCloudStorage\0", 0x7FF7B787EB20, 0x0) = -1 2
CloudStorage.framework/Versions/A/ProtectedCloudStorage\0", 0x7FF7B787EA90, 0x0) =
otectedCloudStorage\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libdscsym.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
stat64("/usr/lib/libdscsym.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/Combine.framework/Versions/A/Combine\0",
k/Versions/A/Combine\0", 0x7FF7B787EAB0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/Combine.framework/Versions/A/Combine\0",
0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GeoServic
es.framework/Versions/A/GeoServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libnetworkextension.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
stat64("/usr/lib/libnetworkextension.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vecLib.fr
amework/Versions/A/Frameworks/vecLib.framework/Versions/A/vecLib\0", 0x7FF7B787EA80, 0x0) = -1 2
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vecLib.fr
amework/Versions/A/vecLib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/CoreServices.framework/Versions/A/CoreServices\0",
amework/Versions/A/CoreServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/CoreServices.framework/Versions/A/CoreServices\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Accelerate\0",
work/Versions/A/Accelerate\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Accelerate\0",
bility\0", 0x7FF7B787EB20, 0x0) = -1 2

```

```
ty.framework/Versions/A/MediaAccessibility\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/Frameworks/MediaAccessibility.framework/Versions/A/MediaAccessibility\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/Vision.framework/Versions/A/Vision\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Vision.framework/Versions/A/Vision\0", 0x7FF7B787EAB0, 0x0)
stat64("/System/Library/Frameworks/Vision.framework/Versions/A/Vision\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/CoreBluetooth.framework/Versions/A/CoreBluetooth\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreBluetooth.framework/Versions/A/CoreBluetooth\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/Frameworks/CoreBluetooth.framework/Versions/A/CoreBluetooth\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SymptomDiagnosticReporter.framework/Versions/A/SymptomDiagnosticReporter\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SymptomDiagnosticReporter.framework/Versions/A/SymptomDiagnosticReporter\0", 0x7FF7B787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/SymptomDiagnosticReporter.framework/Versions/A/SymptomDiagnosticReporter\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/PowerLog.framework/Versions/A/PowerLog\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PowerLog.framework/Versions/A/PowerLog\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/PowerLog.framework/Versions/A/PowerLog\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/AppleIDAuthSupport.framework/Versions/A/AppleIDAuthSupport\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleIDAuthSupport.framework/Versions/A/AppleIDAuthSupport\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/AppleIDAuthSupport.framework/Versions/A/AppleIDAuthSupport\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/DiskRecording.framework/Versions/A/DiskRecording\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/DiskRecording.framework/Versions/A/DiskRecording\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/Frameworks/DiskRecording.framework/Versions/A/DiskRecording\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MediaKit.framework/Versions/A/MediaKit\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MediaKit.framework/Versions/A/MediaKit\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/MediaKit.framework/Versions/A/MediaKit\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/DiskManagement.framework/Versions/A/DiskManagement\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DiskManagement.framework/Versions/A/DiskManagement\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/DiskManagement.framework/Versions/A/DiskManagement\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/CoreAUC.framework/Versions/A/CoreAUC\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreAUC.framework/Versions/A/CoreAUC\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/CoreAUC.framework/Versions/A/CoreAUC\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/Mangrove.framework/Versions/A/Mangrove\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Mangrove.framework/Versions/A/Mangrove\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/Mangrove.framework/Versions/A/Mangrove\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/CoreAVCHD.framework/Versions/A/CoreAVCHD\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreAVCHD.framework/Versions/A/CoreAVCHD\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/CoreAVCHD.framework/Versions/A/CoreAVCHD\0",
0x7FF7B787EB20, 0x0)
```

```

stat64("/System/Library/Frameworks/FileProvider.framework/Versions/A/FileProvider\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/FileProvider.fra
mework/Versions/A/FileProvider\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/Frameworks/FileProvider.framework/Versions/A/FileProvider\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerationalStorage.framework/Versions/A/Gene
rationalStorage\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Generatio
nalStorage.framework/Versions/A/GenerationalStorage\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerationalStorage.framework/Versions/A/Gene
rationalStorage\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/OctagonTrust.framework/Versions/A/OctagonTrus
t\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/OctagonTr
ust.framework/Versions/A/OctagonTrust\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/OctagonTrust.framework/Versions/A/OctagonTrus
t\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreTelephony.framework/Versions/A/CoreTelephony\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreTelephony.fr
amework/Versions/A/CoreTelephony\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreTelephony.framework/Versions/A/CoreTelephony\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftDispatch.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftDispatch.dylib\0",
0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftDispatch.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AVFCore.framework/Versions/A/AVFCore\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AVFCore.f
ramework/Versions/A/AVFCore\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AVFCore.framework/Versions/A/AVFCore\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FrontBoardServices.framework/Versions/A/Front
BoardServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FrontBoar
dServices.framework/Versions/A/FrontBoardServices\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FrontBoardServices.framework/Versions/A/Front
BoardServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BoardServices.framework/Versions/A/BoardServi
ces\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BoardServ
ices.framework/Versions/A/BoardServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BoardServices.framework/Versions/A/BoardServi
ces\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GraphicsServices.framework/Versions/A/Graphic
sServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GraphicsS
ervices.framework/Versions/A/GraphicsServices\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GraphicsServices.framework/Versions/A/Graphic
sServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/CryptoTokenKit.framework/Versions/A/CryptoTokenKit\0
", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CryptoTokenKit.f
ramework/Versions/A/CryptoTokenKit\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/Frameworks/CryptoTokenKit.framework/Versions/A/CryptoTokenKit\0
", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/LocalAuthentication.framework/Versions/A/LocalAuthen
tication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/LocalAuthenticat
ion.framework/Versions/A/LocalAuthentication\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/Frameworks/LocalAuthentication.framework/Versions/A/LocalAuthen
tication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/LocalAuthentication.framework/Support/SharedUtils.fr
amework/Versions/A/SharedUtils\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/LocalAuthenticat
ion.framework/Support/SharedUtils.framework/Versions/A/SharedUtils\0", 0x7FF7B787EA80, 0x0) = -1 2

```



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stat64("/System/Library/Frameworks/LocalAuthentication.framework/Support/SharedUtils.framework/Versions/A/SharedUtils\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SAObjects.framework/Versions/A/SAObjects\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SAObjects.framework/Versions/A/SAObjects\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SAObjects.framework/Versions/A/SAObjects\0", 0x7FF7B787EB20, 0x0) = -1 2
s\0", stat64("/System/Library/PrivateFrameworks/DebugSymbols.framework/Versions/A/DebugSymbols.framework/Versions/A/DebugSymbols\0", 0x7FF7B787EAA0, 0x0) = -1 2
s\0", stat64("/System/Library/PrivateFrameworks/DebugSymbols.framework/Versions/A/DebugSymbols\0", 0x7FF7B787EB20, 0x0) = -1 2
mbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
mbolication.framework/Versions/A/CoreSymbolication\0", 0x7FF7B787EAA0, 0x0) = -1 2
mbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreTime.framework/Versions/A/CoreTime\0", 0x7FF7B787EB20, 0x0) = -1 2
framework/Versions/A/CoreTime\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Rapport.framework/Versions/A/Rapport\0", 0x7FF7B787EB20, 0x0) = -1 2
framework/Versions/A/Rapport\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
Context\0", 0x7FF7B787EB20, 0x0) = -1 2
ontext.framework/Versions/A/CoreDuetContext\0", 0x7FF7B787EAA0, 0x0) = -1 2
Context\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
k/Versions/A/Intents\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
, 0x7FF7B787EB20, 0x0) = -1 2
1.framework/Versions/A/Apple80211\0", 0x7FF7B787EAA0, 0x0) = -1 2
, 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
framework/Versions/A/CoreWiFi\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
ardServices\0", 0x7FF7B787EB20, 0x0) = -1 2
Services.framework/Versions/A/BackBoardServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
ardServices\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP\0", 0x7FF7B787EB20,
```

```

stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP\0", 0x7FF7B787EAB0, 0x0)
0x0) stat64("/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP\0", 0x7FF7B787EB20,
stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent\0", 0x7FF7B787EB20, 0x0)
, stat64("/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages\0", 0x7FF7B787EAA0, 0x0)
, stat64("/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/A/RemoteServiceDiscovery\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/A/RemoteServiceDiscovery\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/A/RemoteServiceDiscovery\0", 0x7FF7B787EB20, 0x0)
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)
stat64("/System/Library/PrivateFrameworks/RemoteXPC.framework/Versions/A/RemoteXPC\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/libcsfde.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcsfde.dylib\0", 0x7FF7B787EAD0,
stat64("/usr/lib/libcsfde.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libcurl.4.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcurl.4.dylib\0", 0x7FF7B787EAD0, 0x0)
stat64("/usr/lib/libcurl.4.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
, stat64("/System/Library/PrivateFrameworks/AppSupport.framework/Versions/A/AppSupport\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppSupport.framework/Versions/A/AppSupport\0", 0x7FF7B787EAA0, 0x0)
, stat64("/System/Library/PrivateFrameworks/AppSupport.framework/Versions/A/AppSupport\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B787EB20, 0x0)
t\0", stat64("/System/Library/PrivateFrameworks/AppleAccount.framework/Versions/A/AppleAccount\0", 0x7FF7B787EB20, 0x0)

```

```

unt.framework/Versions/A/AppleAccount.framework/Versions/A/AppleAccount\0", stat64("/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B787EA80, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B787EB20, 0x0) = -1 2
p\0", stat64("/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B787EAA0, 0x0) = -1 2
p\0", stat64("/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B787EAC0, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftos.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftos.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftos.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntentsFoundation.framework/Versions/A/IntentsFoundation\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IntentsFoundation.framework/Versions/A/IntentsFoundation\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntentsFoundation.framework/Versions/A/IntentsFoundation\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/PushKit.framework/Versions/A/PushKit\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/PushKit.framework/Versions/A/PushKit\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/Frameworks/PushKit.framework/Versions/A/PushKit\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/C2.framework/Versions/A/C2\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/C2.framework/Versions/A/C2\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/C2.framework/Versions/A/C2\0", 0x7FF7B787EB20, 0x0) = -1 2

```

```
stat64("/System/Library/Frameworks/QuickLookThumbnailing.framework/Versions/A/QuickLookThumbnailing\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/QuickLookThumbnailing.framework/Versions/A/QuickLookThumbnailing\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/Frameworks/QuickLookThumbnailing.framework/Versions/A/QuickLookThumbnailing\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ANEServices.framework/Versions/A/ANEServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ANEServices.framework/Versions/A/ANEServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ANEServices.framework/Versions/A/ANEServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ProactiveSupport.framework/Versions/A/ProactiveSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ProactiveSupport.framework/Versions/A/ProactiveSupport\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ProactiveSupport.framework/Versions/A/ProactiveSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreDuetDaemonProtocol.framework/Versions/A/CoreDuetDaemonProtocol\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreDuetDaemonProtocol.framework/Versions/A/CoreDuetDaemonProtocol\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreDuetDaemonProtocol.framework/Versions/A/CoreDuetDaemonProtocol\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RTCReporting.framework/Versions/A/RTCReporting\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RTCReporting.framework/Versions/A/RTCReporting\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RTCReporting.framework/Versions/A/RTCReporting\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleNeuralEngine.framework/Versions/A/AppleNeuralEngine\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleNeuralEngine.framework/Versions/A/AppleNeuralEngine\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleNeuralEngine.framework/Versions/A/AppleNeuralEngine\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/IOSurfaceAccelerator\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/IOSurfaceAccelerator\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/IOSurfaceAccelerator\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MediaRemote.framework/Versions/A/MediaRemote\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MediaRemote.framework/Versions/A/MediaRemote\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MediaRemote.framework/Versions/A/MediaRemote\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AssistantServices.framework/Versions/A/AssistantServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AssistantServices.framework/Versions/A/AssistantServices\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AssistantServices.framework/Versions/A/AssistantServices\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FMCoreLite.framework/Versions/A/FMCoreLite\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FMCoreLite.framework/Versions/A/FMCoreLite\0", 0x7FF7B787EAA0, 0x0) = -1 2
```

```
, 0x7FF7B787EB20, 0x0)
    stat64("/usr/lib/libtidy.A.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/usr/lib/libtidy.A.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/Engram.framework/Versions/A/Engram\0",
amework/Versions/A/Engram\0", 0x7FF7B787EAB0, 0x0)
    stat64("/System/Library/PrivateFrameworks/Engram.framework/Versions/A/Engram\0",
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/AVFCapture.framework/Versions/A/AVFCapture\0"
e.framework/Versions/A/AVFCapture\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/AVFCapture.framework/Versions/A/AVFCapture\0"
, 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/Quagga.framework/Versions/A/Quagga\0",
amework/Versions/A/Quagga\0", 0x7FF7B787EAB0, 0x0)
    stat64("/System/Library/PrivateFrameworks/Quagga.framework/Versions/A/Quagga\0",
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/CMCapture.framework/Versions/A/CMCapture\0",
amework/Versions/A/CMCapture\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/CMCapture.framework/Versions/A/CMCapture\0",
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/CloudServices.framework/Versions/A/CloudServi
ces\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CloudServ
ices.framework/Versions/A/CloudServices\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/CloudServices.framework/Versions/A/CloudServi
ces\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/HID.framework/Versions/A/HID\0",
work/Versions/A/HID\0", 0x7FF7B787EAB0, 0x0)
    stat64("/System/Library/PrivateFrameworks/HID.framework/Versions/A/HID\0",
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/MediaServices.framework/Versions/A/MediaServi
ces\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MediaServ
ices.framework/Versions/A/MediaServices\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/MediaServices.framework/Versions/A/MediaServi
ces\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/Marco.framework/Versions/A/Marco\0",
amework/Versions/A/Marco\0", 0x7FF7B787EAB0, 0x0)
    stat64("/System/Library/PrivateFrameworks/Marco.framework/Versions/A/Marco\0",
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/ProactiveEventTracker.framework/Versions/A/Pr
oactiveEventTracker\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Proactive
EventTracker.framework/Versions/A/ProactiveEventTracker\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/ProactiveEventTracker.framework/Versions/A/Pr
oactiveEventTracker\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/PhoneNumbers.framework/Versions/A/PhoneNumer
ers.framework/Versions/A/PhoneNumbers\0", 0x7FF7B787EAA0, 0x0)
    stat64("/System/Library/PrivateFrameworks/PhoneNumbers.framework/Versions/A/PhoneNumer
s\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/URLFormatting.framework/Versions/A/URLFormatt
ing\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/URLFormat
ting.framework/Versions/A/URLFormatting\0", 0x7FF7B787EAA0, 0x0)
```

```

ing\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Library/PrivateFrameworks/URLFormatting.framework/Versions/A/URLFormatt
ilities\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AXCoreUti
lities.framework/Versions/A/AXCoreUtilities\0", 0x7FF7B787EA90, 0x0) = -1 2
    stat64("/System/Library/PrivateFrameworks/AXCoreUtilities.framework/Versions/A/AXCoreUt
ilities\0", 0x7FF7B787EB20, 0x0) = -1 2
        stat64("/usr/lib/libAccessibility.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
        stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libAccessibility.dylib\0",
    stat64("/usr/lib/libAccessibility.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Library/Frameworks/NetFS.framework/Versions/A/NetFS\0", 0x7FF7B787EB20,
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/NetFS.framework/
Versions/A/NetFS\0", 0x7FF7B787EAB0, 0x0) = -1 2
0x0) stat64("/System/Library/Frameworks/NetFS.framework/Versions/A/NetFS\0", 0x7FF7B787EB20,
    stat64("/usr/lib/swift/libswiftDarwin.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/usr/lib/swift/libswiftDarwin.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/Frameworks/AVFoundation.framework/Versions/A/AVFoundation\0",
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AVFoundation.fra
mework/Versions/A/AVFoundation\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0)
    stat64("/System/Library/Frameworks/AVFoundation.framework/Versions/A/AVFoundation\0",
    stat64("/usr/lib/libquic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libquic.dylib\0", 0x7FF7B787EAD0,
    stat64("/usr/lib/libquic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
y\0", stat64("/System/Library/PrivateFrameworks/SystemPolicy.framework/Versions/A/SystemPolic
icy.framework/Versions/A/SystemPolicy\0", 0x7FF7B787EAA0, 0x0) = -1 2
y\0", stat64("/System/Library/PrivateFrameworks/SystemPolicy.framework/Versions/A/SystemPolic
e\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FindMyDev
ice.framework/Versions/A/FindMyDevice\0", 0x7FF7B787EAA0, 0x0) = -1 2
e\0", stat64("/System/Library/PrivateFrameworks/FindMyDevice.framework/Versions/A/FindMyDevic
e\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Library/PrivateFrameworks/FeatureFlagsSupport.framework/Versions/A/Feat
ureFlagsSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FeatureFl
agsSupport.framework/Versions/A/FeatureFlagsSupport\0", 0x7FF7B787EA90, 0x0) = -1 2
    stat64("/System/Library/PrivateFrameworks/FeatureFlagsSupport.framework/Versions/A/Feat
ureFlagsSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
, 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/FTServices.framework/Versions/A/FTServices\0"
s.framework/Versions/A/FTServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
, 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/FTServices.framework/Versions/A/FTServices\0"
\0", stat64("/System/Library/Frameworks/NaturalLanguage.framework/Versions/A/NaturalLanguage
framework/Versions/A/NaturalLanguage\0", 0x7FF7B787EAA0, 0x0) = -1 2
\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Library/PrivateFrameworks/LoggingSupport.framework/Versions/A/LoggingSu
pport\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/LoggingSu
pport.framework/Versions/A/LoggingSupport\0", 0x7FF7B787EAA0, 0x0) = -1 2
    stat64("/System/Library/PrivateFrameworks/LoggingSupport.framework/Versions/A/LoggingSu
pport\0", 0x7FF7B787EB20, 0x0) = -1 2

```

```

stat64("/System/Library/PrivateFrameworks/MallocStackLogging.framework/Versions/A/MallocStackLogging\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MallocStackLogging.framework/Versions/A/MallocStackLogging\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MallocStackLogging.framework/Versions/A/MallocStackLogging\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libmis.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libmis.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/libmis.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPURawCounter.framework/Versions/A/GPURawCounter\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GPURawCounter.framework/Versions/A/GPURawCounter\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPURawCounter.framework/Versions/A/GPURawCounter\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreAudio.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreAudio.dylib\0", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreAudio.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftIOKit.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftIOKit.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftIOKit.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Trial.framework/Versions/A/Trial\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Trial.framework/Versions/A/Trial\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Trial.framework/Versions/A/Trial\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libbootpolicy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libbootpolicy.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/libbootpolicy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FeedbackLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FeedbackLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FeedbackLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2

```

```

work\0", 0x7FF7B787EB20, 0x0) = -1 2
work.framework/Versions/A/CaptiveNetwork\0", 0x7FF7B787EAA0, 0x0) = -1 2
work\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/usr/lib/libncurses.5.4.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) = -1 2
    stat64("/usr/lib/libncurses.5.4.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
1MemoryInfo\0", 0x7FF7B787EB20, 0x0) = -1 2
memoryInfo.framework/Versions/A/IOAcceleratorMemoryInfo\0", 0x7FF7B787EA90, 0x0) = -1 2
1MemoryInfo\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
amework/Versions/A/AOSKit\0", 0x7FF7B787EB20, 0x0) = -1 2
amework/Versions/A/AOSKit\0", 0x7FF7B787EAB0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
Instrumentation\0", 0x7FF7B787EB20, 0x0) = -1 2
strumentation.framework/Versions/A/SiriInstrumentation\0", 0x7FF7B787EA90, 0x0) = -1 2
Instrumentation\0", 0x7FF7B787EB20, 0x0) = -1 2
amework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
work/Versions/A/Frameworks/vImage.framework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B787EA70, 0x0) = -1 2
amework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftCoreLocation.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EAC0, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftCoreLocation.dylib\0", 0x7FF7B787EB20, 0x0)
    stat64("/usr/lib/swift/libswiftCoreMIDI.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAC0, 0x0) = -1 2
    stat64("/usr/lib/swift/libswiftCoreMIDI.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
ccessor\0", 0x7FF7B787EB20, 0x0) = -1 2
cessor.framework/Versions/A/MSUDataAccessor\0", 0x7FF7B787EA90, 0x0) = -1 2
ccessor\0", 0x7FF7B787EB20, 0x0) = -1 2
A/SoftwareUpdateCoreSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
pdateCoreSupport.framework/Versions/A/SoftwareUpdateCoreSupport\0", 0x7FF7B787EA80, 0x0) = -1 2
A/SoftwareUpdateCoreSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
    stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) = -1 2
    stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
Graph\0", 0x7FF7B787EB20, 0x0) = -1 2
Graph.framework/Versions/A/AttributeGraph\0", 0x7FF7B787EAA0, 0x0) = -1 2
Graph\0", 0x7FF7B787EB20, 0x0) = -1 2

```



```

0x7FF7B787EB20, 0x0) stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0",
/libfaceCore.dylib\0", 0x7FF7B787EAB0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Vision.framework
0x7FF7B787EB20, 0x0) stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0",
gnition\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextReco
gnition.framework/Versions/A/TextRecognition\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/TextRecog
gnition\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextReco
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0",
ramework/Versions/A/Futhark\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/Futhark.f
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0",
ndation\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/BiomeFoundation.framework/Versions/A/BiomeFou
ndation.framework/Versions/A/BiomeFoundation\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/BiomeFoun
ndation\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam\0"
, 0x7FF7B787EB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InertiaCa
m.framework/Versions/A/InertiaCam\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam\0"
, 0x7FF7B787EB20, 0x0) stat64("/usr/lib/swift/libswiftMetal.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftMetal.dylib\0",
stat64("/usr/lib/swift/libswiftMetal.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftCompression.dylib\0", 0x7FF7B787EB20, 0x0)
, 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCompression.dylib\0"
= -1 2 stat64("/usr/lib/swift/libswiftCompression.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/FTAWD.framework/Versions/A/FTAWD\0",
mework/Versions/A/FTAWD\0", 0x7FF7B787EAB0, 0x0) stat64("/System/Library/PrivateFrameworks/FTAWD.framework/Versions/A/FTAWD\0",
0x7FF7B787EB20, 0x0) stat64("/usr/lib/libFDR.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libFDR.dylib\0", 0x7FF7B787EAD0,
stat64("/usr/lib/libFDR.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
s\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/BiomeStreams.framework/Versions/A/BiomeStream
ams.framework/Versions/A/BiomeStreams\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/BiomeStre
s\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/BiomeStreams.framework/Versions/A/BiomeStream
A/SoftwareUpdateCoreConnect\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/SoftwareUpdateCoreConnect.framework/Versions/A/SoftwareUpdateCoreConnect\0", 0x7FF7B787EAA0, 0x0)
A/SoftwareUpdateCoreConnect\0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/SoftwareUpdateCoreConnect.framework/Versions/A/SoftwareUpdateCoreConnect\0", 0x7FF7B787EAA0, 0x0)
cs.framework/Versions/A/OSAnalytics\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/OSAnalytics.framework/Versions/A/OSAnalytics\0", 0x7FF7B787EB20, 0x0)
0", 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/OSAnalytics.framework/Versions/A/OSAnalytics\0", 0x7FF7B787EB20, 0x0)

```

```

orkServiceProxy\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/NetworkSe
ryiceProxy.framework/Versions/A/NetworkServiceProxy\0", 0x7FF7B787EA90, 0x0) = -1 2
orkServiceProxy\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftQuartzCore.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftQuartzCore.dylib\0",
0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftQuartzCore.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperf.framework/Versions/A/kperf\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/kperf.fra
mework/Versions/A/kperf\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperf.framework/Versions/A/kperf\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ktrace.framework/Versions/A/ktrace\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ktrace.fr
amework/Versions/A/ktrace\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ktrace.framework/Versions/A/ktrace\0",
0x7FF7B787EB20, 0x0) = -1 2
ileSystemService\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MobileSys
temServices.framework/Versions/A/MobileSystemService\0", 0x7FF7B787EA90, 0x0) = -1 2
ileSystemService\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpost
Support\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SignpostS
upport.framework/Versions/A/SignpostSupport\0", 0x7FF7B787EA90, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpost
Support\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SampleAnalysis.framework/Versions/A/SampleAna
lysis\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SampleAna
lysis.framework/Versions/A/SampleAnalysis\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SampleAnalysis.framework/Versions/A/SampleAna
lysis\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) = -1 2
stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMePubSub.framework/Versions/A/BioMePubSub\
ub.framework/Versions/A/BioMePubSub\0", 0x7FF7B787EAA0, 0x0) = -1 2
0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMePubSub.framework/Versions/A/BioMePubSub\
e\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BioMeStor
age.framework/Versions/A/BioMeStorage\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMeStorage.framework/Versions/A/BioMeStorag
e\0", 0x7FF7B787EB20, 0x0) = -1 2
ntity\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DeviceIde
ntity.framework/Versions/A/DeviceIdentity\0", 0x7FF7B787EAA0, 0x0) = -1 2
ntity\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/SymptomR
eporter\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SymptomRe
porter.framework/Versions/A/SymptomReporter\0", 0x7FF7B787EA90, 0x0) = -1 2

```

```

eporter\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftUniformTypeIdentifiers.dylib\0", 0x7FF7B787EB20, 0x0)
rs.dylib\0", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftUniformTypeIdentifiers.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EAC0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftAccelerate.dylib\0",
= -1 2 stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B787EB20, 0x0)
stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libpartition2_dynamic.dylib\0",
stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AFKUser.f
amework/Versions/A/AFKUser\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Osprey.framework/Versions/A/Osprey\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Osprey.fr
amework/Versions/A/Osprey\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Osprey.framework/Versions/A/Osprey\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B787EB20, 0x0)
\0", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAC0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreMedia.dylib\0",
stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/kperfdata
.framework/Versions/A/kperfdata\0", 0x7FF7B787EAA0, 0x0) = -1 2
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
mbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSy
mbolication.framework/Versions/A/BulkSymbolication\0", 0x7FF7B787EAB0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BulkSymbolication.framework/Versions/A/BulkSy
mbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftOSLog.dylib\0",
stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2
stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EAC0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftAVFoundation.dylib\0
= -1 2
stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B787EB20, 0x0)
ion\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Symbolication.framework/Versions/A/Symbolicat
tion.framework/Versions/A/Symbolication\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Symbolication.framework/Versions/A/Symbolicat
ion\0", 0x7FF7B787EB20, 0x0) = -1 2

```

```

0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
mework/Versions/A/Netrb\0", 0x7FF7B787EAB0, 0x0)
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/OSLog.framework/Versions/A/OSLog\0", 0x7FF7B787EB20,
0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OSLog.framework/
Versions/A/OSLog\0", 0x7FF7B787EAB0, 0x0)
0x0)
stat64("/System/Library/Frameworks/OSLog.framework/Versions/A/OSLog\0", 0x7FF7B787EB20,
stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/In
ternalSwiftProtobuf\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InternalS
wiftProtobuf.framework/Versions/A/InternalSwiftProtobuf\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/In
ternalSwiftProtobuf\0", 0x7FF7B787EB20, 0x0)
, 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/HIDDisplay.framework/Versions/A/HIDDisplay\0"
y.framework/Versions/A/HIDDisplay\0", 0x7FF7B787EAA0, 0x0)
, 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/HIDDisplay.framework/Versions/A/HIDDisplay\0"
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/CryptoKit.framework/Versions/A/CryptoKit\0",
ork/Versions/A/CryptoKit\0", 0x7FF7B787EAB0, 0x0)
0x7FF7B787EB20, 0x0)
stat64("/System/Library/Frameworks/CryptoKit.framework/Versions/A/CryptoKit\0",
stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libedit.3.dylib\0",
stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
s\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/FeatureFlags.framework/Versions/A/FeatureFlag
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oPeer\0", 0x7FF7B787EB20, 0x0)
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oPeer.framework/Versions/A/WiFiPeerToPeer\0", 0x7FF7B787EAA0, 0x0)
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igProfileHelper\0", 0x7FF7B787EB20, 0x0)
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fileHelper.framework/Versions/A/ConfigProfileHelper\0", 0x7FF7B787EA90, 0x0)
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igProfileHelper\0", 0x7FF7B787EB20, 0x0)
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er.framework/Versions/A/ANECCompiler\0", 0x7FF7B787EAA0, 0x0)
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/Versions/A/Libraries/libCoreFSCache.dylib\0", 0x7FF7B787EA90, 0x0)

```

```

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t.dylib\0", 0x7FF7B787EB20, 0x0)
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t.dylib\0", 0x7FF7B787EB20, 0x0)
0x7FF7B787EB20, 0x0)
/Versions/A/OpenGL\0", 0x7FF7B787EAB0, 0x0)
0x7FF7B787EB20, 0x0)
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/Versions/A/Libraries/libGLImage.dylib\0", 0x7FF7B787EAA0, 0x0)
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", 0x7FF7B787EB20, 0x0)
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.framework/Versions/A/CoreTransferable\0", 0x7FF7B787EAA0, 0x0)
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undation\0", 0x7FF7B787EB20, 0x0)
ion.framework/Versions/A/ExtensionFoundation\0", 0x7FF7B787EA90, 0x0)
undation\0", 0x7FF7B787EB20, 0x0)
rks/MPSBenchmarkLoop.framework/Versions/A/Frameworks\0", 0x7FF7B787EB20, 0x0)

```

```

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```
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ary.framework/Versions/A/BioMeLibrary\0", 0x7FF7B787EAA0, 0x0)
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ramework/Versions/A/CMPhoto\0", 0x7FF7B787EAA0, 0x0)
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```

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oreSceneUnderstanding\0", 0x7FF7B787EB20, 0x0) = -1 2
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Under-1 2
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oreSceneUnderstanding\0", 0x7FF7B787EB20, 0x0) = -1 2
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sExtras\0", 0x7FF7B787EB20, 0x0) = -1 2
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itPrivate\0", 0x7FF7B787EB20, 0x0) = -1 2
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ces.framework/Versions/A/FontServices\0", 0x7FF7B787EAA0, 0x0) = -1 2
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s\0", 0x7FF7B787EB20, 0x0) = -1 2
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yData.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
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ces.framework/libXTFontStaticRegistryData.dylib\0", 0x7FF7B787EA90, 0x0) = -1 2
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yData.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
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ng.framework/Versions/A/FramePacing\0", 0x7FF7B787EAA0, 0x0) = -1 2
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0", 0x7FF7B787EB20, 0x0) = -1 2
s/libGPUCompilerUtils.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
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er.framework/Versions/32023/Libraries/libGPUCompilerUtils.dylib\0", 0x7FF7B787EA80, 0x0) = -1 2
s/libGPUCompilerUtils.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
s/libIlvm-flatbuffers.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
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er.framework/Versions/32023/Libraries/libIlvm-flatbuffers.dylib\0", 0x7FF7B787EA80, 0x0) = -1 2
s/libIlvm-flatbuffers.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
1\0", stat64("/System/Library/PrivateFrameworks/GRDBInternal.framework/Versions/A/GRDBInterna
nal.framework/Versions/A/GRDBInternal\0", 0x7FF7B787EAA0, 0x0) = -1 2
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rativeFunctions\0", 0x7FF7B787EB20, 0x0) = -1 2

```



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stat64("/System/Library/PrivateFrameworks/InstalledContentLibrary.framework/Versions/A/InstalledContentLibrary\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/IntelligencePlatformLibrary.framework/Version s/A/IntelligencePlatformLibrary\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IntelligencePlatformLibrary.framework/Versions/A/IntelligencePlatformLibrary\0", 0x7FF7B787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/IntelligencePlatformLibrary.framework/Version s/A/IntelligencePlatformLibrary\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/IsolatedCoreAudioClient.framework/Versions/A/IsolatedCoreAudioClient\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IsolatedCoreAudioClient.framework/Versions/A/IsolatedCoreAudioClient\0", 0x7FF7B787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/IsolatedCoreAudioClient.framework/Versions/A/IsolatedCoreAudioClient\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/LocalAuthenticationCore.framework/Versions/A/LocalAuthenticationCore\0", 0x7FF7B787EB20, 0x0)

```

```
entificationCore.framework/Versions/A/LocalAuthenticationCore\0", 0x7FF7B787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/LocalAuthenticationCore.framework/Versions/A/
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MIL.framework/Versions/A/MIL\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MIL.frame
work/Versions/A/MIL\0", 0x7FF7B787EAB0, 0x0)
stat64("/System/Library/PrivateFrameworks/MIL.framework/Versions/A/MIL\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MLAssetIO.framework/Versions/A/MLAssetIO\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MLAssetIO
.framework/Versions/A/MLAssetIO\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/MLAssetIO.framework/Versions/A/MLAssetIO\0",
0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MLCompilerRuntime.framework/Versions/A/MLComp
ilerRuntime\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MLCompile
rRuntime.framework/Versions/A/MLCompilerRuntime\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/MLCompilerRuntime.framework/Versions/A/MLComp
ilerRuntime\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MLCompilerServices.framework/Versions/A/MLCom
pilerServices\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MLCompile
rServices.framework/Versions/A/MLCompilerServices\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/MLCompilerServices.framework/Versions/A/MLCom
pilerServices\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/MessageSecurity.framework/Versions/A/MessageS
ecurity\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MessageSe
curity.framework/Versions/A/MessageSecurity\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/MessageSecurity.framework/Versions/A/MessageS
ecurity\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ModelCatalog.framework/Versions/A/ModelCatalo
g\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ModelCata
log.framework/Versions/A/ModelCatalog\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/ModelCatalog.framework/Versions/A/ModelCatalo
g\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ModelManagerServices.framework/Versions/A/Mod
elManagerServices\0", 0x7FF7B787EB20, 0x0)
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gerServices.framework/Versions/A/ModelManagerServices\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/ModelManagerServices.framework/Versions/A/Mod
elManagerServices\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ParsingInternal.framework/Versions/A/ParsingI
nternal\0", 0x7FF7B787EB20, 0x0)
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ternal.framework/Versions/A/ParsingInternal\0", 0x7FF7B787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/ParsingInternal.framework/Versions/A/ParsingI
nternal\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/PhotosensitivityProcessing.framework/Versions
/A/PhotosensitivityProcessing\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Photosens
itivityProcessing.framework/Versions/A/PhotosensitivityProcessing\0", 0x7FF7B787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/PhotosensitivityProcessing.framework/Versions
/A/PhotosensitivityProcessing\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/PoirotSQLite.framework/Versions/A/PoirotSQLit
e\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PoirotSQL
ite.framework/Versions/A/PoirotSQLite\0", 0x7FF7B787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/PoirotSQLite.framework/Versions/A/PoirotSQLit
e\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/PoirotSchematizer.framework/Versions/A/Poirot
Schematizer\0", 0x7FF7B787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PoirotSch
ematizer.framework/Versions/A/PoirotSchematizer\0", 0x7FF7B787EA90, 0x0)
```

```

stat64("/System/Library/PrivateFrameworks/PoirotSchematizer.framework/Versions/A/PoirotSchematizer\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ProDisplayLibrary.framework/Versions/A/ProDisplayLibrary\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ProDisplayLibrary.framework/Versions/A/ProDisplayLibrary\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/ProDisplayLibrary.framework/Versions/A/ProDisplayLibrary\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ProactiveDaemonSupport.framework/Versions/A/ProactiveDaemonSupport\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ProactiveDaemonSupport.framework/Versions/A/ProactiveDaemonSupport\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/ProactiveDaemonSupport.framework/Versions/A/ProactiveDaemonSupport\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/PromptKit.framework/Versions/A/PromptKit\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PromptKit.framework/Versions/A/PromptKit\0", 0x7FFB787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/PromptKit.framework/Versions/A/PromptKit\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/ReflectionInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeInternal\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/RuntimeInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versions/A/SensitiveContentAnalysisML\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versions/A/SensitiveContentAnalysisML\0", 0x7FFB787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versions/A/SensitiveContentAnalysisML\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/SentencePieceInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/SentencePieceInternal\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/SentencePieceInternal\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalytics\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalytics\0", 0x7FFB787EAA0, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalytics\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Versions/A/SiriCrossDeviceArbitration\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Versions/A/SiriCrossDeviceArbitration\0", 0x7FFB787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Versions/A/SiriCrossDeviceArbitration\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FFB787EA90, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FFB787EB20, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriPowerInstrumentation.framework/Versions/A/SiriPowerInstrumentation\0", 0x7FFB787EB20, 0x0)
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriPowerInstrumentation.framework/Versions/A/SiriPowerInstrumentation\0", 0x7FFB787EA80, 0x0)
stat64("/System/Library/PrivateFrameworks/SiriPowerInstrumentation.framework/Versions/A/SiriPowerInstrumentation\0", 0x7FFB787EB20, 0x0)

```

stat64("/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriTTS.f
ramework/Versions/A/SiriTTS\0", 0x7FF7B787EAA0, 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/SiriTTSSe
rvice\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriTTSSe
rvice.framework/Versions/A/SiriTTSService\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriTTSService.framework/Versions/A/SiriTTSSe
rvice\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/Strea
mingExtractor\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Streaming
Extractor.framework/Versions/A/StreamingExtractor\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/Strea
mingExtractor\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Symptoms.framework/Versions/A/Frameworks/Symp
tomAnalytics.framework/Versions/A/SymptomAnalytics\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Symptoms.
framework/Versions/A/Frameworks/SymptomAnalytics.framework/Versions/A/SymptomAnalytics\0",
0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Symptoms.framework/Versions/A/Frameworks/Symp
tomAnalytics.framework/Versions/A/SymptomAnalytics\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TailspinSymbolication.framework/Versions/A/Ta
ilspinSymbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TailspinS
ymbolication.framework/Versions/A/TailspinSymbolication\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TailspinSymbolication.framework/Versions/A/Ta
ilspinSymbolication\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Tightbeam.framework/Versions/A/Tightbeam\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Tightbeam
.framework/Versions/A/Tightbeam\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Tightbeam.framework/Versions/A/Tightbeam\0",
0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TokenGeneration.framework/Versions/A/TokenGen
eration\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TokenGene
ration.framework/Versions/A/TokenGeneration\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TokenGeneration.framework/Versions/A/TokenGen
eration\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/Toke
nGenerationCore\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TokenGene
rationCore.framework/Versions/A/TokenGenerationCore\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/Toke
nGenerationCore\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/UnifiedAssetFramework.framework/Versions/A/Un
ifiedAssetFramework\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/UnifiedAs
setFramework.framework/Versions/A/UnifiedAssetFramework\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/UnifiedAssetFramework.framework/Versions/A/Un
ifiedAssetFramework\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/VectorSearch.framework/Versions/A/VectorSearc
h\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/VectorSea
rch.framework/Versions/A/VectorSearch\0", 0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/VectorSearch.framework/Versions/A/VectorSearc
h\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/VideoToolboxParavirtualizationSupport.framewo
rk/Versions/A/VideoToolboxParavirtualizationSupport\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/VideoTool
boxParavirtualizationSupport.framework/Versions/A/VideoToolboxParavirtualizationSupport\0",
0x7FF7B787EAA0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/VideoToolboxParavirtualizationSupport.framewo
rk/Versions/A/VideoToolboxParavirtualizationSupport\0", 0x7FF7B787EB20, 0x0) = -1 2

```

, 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/VisionCore.framework/Versions/A/VisionCore\0"
e.framework/Versions/A/VisionCore\0", 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/VisionCore.framework/Versions/A/VisionCore\0"
, 0x7FF7B787EB20, 0x0) stat64("/System/Library/PrivateFrameworks/XPCSupport.framework/Versions/A/XPCSupport\0"
, 0x7FF7B787EB20, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/XPCSupport.framework/Versions/A/XPCSupport\0"
, 0x7FF7B787EAA0, 0x0) stat64("/System/Library/PrivateFrameworks/XPCSupport.framework/Versions/A/XPCSupport\0"
, 0x7FF7B787EB20, 0x0) stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libAXSafeCategoryBundle.dylib\0",
stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libAppleArchive.dylib\0",
stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libCoreEntitlements.dylib\0",
stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libRosetta.dylib\0",
stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libTLE.dylib\0", 0x7FF7B787EAD0,
stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcrypto.46.dylib\0",
stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcupolicy.dylib\0",
stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libmrc.dylib\0", 0x7FF7B787EAD0,
stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libnswifftls.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libnswifftls.dylib\0",
stat64("/usr/lib/libnswifftls.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libssl.48.dylib\0",
stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B787EB20, 0x0)
, 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftDistributed.dylib\0"
= -1 2 stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftFileProvider.dylib\0"

```

```

= -1 2 stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B787EB20, 0x0)
      stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAC0, 0x0) stat64("/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)
, 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftObservation.dylib\0"
= -1 2 stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftRegexBuilder.dylib\0
= -1 2 stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B787EB20, 0x0)
b\0", 0x7FF7B787EAC0, 0x0) 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
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftSystem.dylib\0",
      stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
= -1 2 stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B787EB20, 0x0)
\0", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Builtin_float.dylib
= -1 2 stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2 stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B787EB20, 0x0)
", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_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)
", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/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)
lib\0", 0x7FF7B787EAC0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_StringProcessing.dy
= -1 2 stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B787EB20, 0x0)
      stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_errno.dylib\0",
      stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
      stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_math.dylib\0",
      stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
      stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B787EB20, 0x0) = -1 2
0x7FF7B787EAD0, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_signal.dylib\0",
      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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0x7FF7B787EAD0, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_stdio.dylib\0",
    stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B787EB20, 0x0)           = -1 2
    stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B787EB20, 0x0)         = -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_time.dylib\0",
    stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B787EB20, 0x0)         = -1 2
    stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B787EB20, 0x0)     = -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftsys_time.dylib\0",
    stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B787EB20, 0x0)     = -1 2
    stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B787EB20, 0x0)       = -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftunistd.dylib\0",
    stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B787EB20, 0x0)       = -1 2
= -1 2
    stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B787EB20, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.d
    stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
    stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_eligibility.dylib
    stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
    stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
0x7FF7B787EAD0, 0x0)
    stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sanitizers.dylib\
    stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B787EB20, 0x0)
= -1 2
    open("/Users/romanmarkin/Documents/OS_labs/lab_3/parent\0", 0x0, 0x0)       = 3 0
    __mac_syscall(0x7FF819E34F23, 0x2, 0x7FF7B787F250)                        = 0 0
    map_with_linking_np(0x7FF7B787F1A0, 0x1, 0x7FF7B787F1D0)                  = -1 22
    close(0x3)                        = 0 0
    mprotect(0x108671000, 0x4000, 0x1)                                         = 0 0
    open("/dev/dtracehelper\0", 0x2, 0x0)                                       = 3 0
    ioctl(0x3, 0x80086804, 0x7FF7B787E688)                                     = 0 0
    close(0x3)                        = 0 0
    shared_region_check_np(0xFFFFFFFFFFFFFFFF, 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)                                    = 0x10867F000 0
    close(0x3)                        = 0 0
    csops(0x7434, 0x0, 0x7FF7B787EEE4)                                           = 0 0
    ioctl(0x2, 0x4004667A, 0x7FF7B787EE74)                                       = 0 0
    mprotect(0x108689000, 0x1000, 0x0)                                           = 0 0
    mprotect(0x108695000, 0x1000, 0x0)                                           = 0 0
    mprotect(0x108696000, 0x1000, 0x0)                                           = 0 0
    mprotect(0x1086A2000, 0x1000, 0x0)                                           = 0 0
    mprotect(0x108684000, 0xC8, 0x1)                                             = 0 0
    mprotect(0x108684000, 0xC8, 0x3)                                             = 0 0

```

```

mprotect(0x108684000, 0xC8, 0x1)           = 0 0
mprotect(0x1086A3000, 0x1000, 0x1)         = 0 0
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
getattrlist("/Users/romanmarkin/Documents/OS_labs/lab_3/parent\0", 0x7FF7B787ED50,
0x7FF7B787ED6C) = 0 0
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)           = 0 0
close(0x3)                                 = 0 0
= -1 2 open("/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.