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

Лабораторная работа №2 по курсу
«Операционные системы»

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Оценка: _____

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Постановка задачи

Вариант 3.

Отсортировать массив целых чисел при помощи параллельной сортировки слиянием

Общий метод и алгоритм решения

Используемые функции и библиотеки:

- **dispatch_semaphore_create**: Используется для создания семафора GCD, который ограничивает количество одновременно работающих потоков. Максимальное значение семафора задаётся при инициализации.
- **dispatch_semaphore_wait**: Используется для уменьшения значения семафора. Если значение семафора равно нулю, поток блокируется до тех пор, пока другой поток не увеличит значение семафора.
- **dispatch_semaphore_signal**: Используется для увеличения значения семафора, освобождая "слот" и позволяя другому потоку начать выполнение.
- **pthread_create**: Используется для создания новых потоков. Каждый поток выполняет функцию `threaded_mergesort`, обрабатывая часть массива.
- **pthread_join**: Используется для ожидания завершения выполнения потоков. Гарантирует, что программа не завершит работу, пока все потоки не завершат свои задачи.
- **malloc и free**: Используются для динамического выделения памяти под массивы и их временные копии, а также для освобождения этой памяти после использования.
- **rand и srand**: Используются для генерации случайных чисел, заполняющих массив. Инициализация генератора выполняется функцией `srand` для обеспечения случайности.
- **merge**: Выполняет слияние двух отсортированных подмассивов в один отсортированный массив. Это ключевая часть алгоритма сортировки слиянием.
- **threaded_mergesort**: Основная рекурсивная функция, реализующая параллельную сортировку слиянием. Использует потоки для разделения работы на части и семафоры для ограничения их количества.
- **seq_merge_sort**: Реализует последовательную сортировку слиянием для случая, когда потоки не могут быть созданы (например, если семафор недоступен).
- **gettimeofday**: Используется для измерения времени выполнения программы.

Структуры данных

- **ThreadArgs**: Структура для передачи аргументов в потоки. Содержит:
 - `array`: Указатель на массив, который необходимо сортировать.
 - `left`: Начальный индекс текущего сегмента массива.
 - `right`: Конечный индекс текущего сегмента массива.
 -

Функции программы

- **merge**: Выполняет слияние двух отсортированных подмассивов. Использует временные массивы для сохранения данных из левого и правого подмассивов, после чего объединяет их в общий массив.
- **seq_merge_sort**: Последовательная реализация сортировки слиянием. Используется, если потоки недоступны или требуется обработка небольших частей массива.
- **threaded_mergesort**: Параллельная реализация сортировки слиянием:
 - Делит массив на две части.
 - Создаёт потоки для сортировки каждой части, если доступен "слот" в семафоре.

- Если поток не может быть создан, рекурсивно вызывает `seq_merge_sort` для обработки массива в текущем потоке.
- После завершения потоков объединяет результаты с помощью функции `merge`.
- **main:**
 - Проверяет корректность введенных параметров.
 - Инициализирует массив случайными числами.
 - Создает семафор GCD для ограничения числа потоков.
 - Вызывает функцию `threaded_mergesort` для выполнения сортировки.
 - Проверяет отсортированность массива.
 - Выводит время выполнения, количество вызовов сортировки, операций слияния и созданных потоков.
 - Освобождает выделенную память.

Основная логика программы

1. **Инициализация данных:**
 - Принимаются параметры командной строки: количество потоков и размер массива.
 - Генерируется массив случайных чисел.
2. **Создание семафора:**
 - Семафор GCD создается с максимальным значением, равным числу потоков.
3. **Параллельная сортировка:**
 - Функция `threaded_mergesort` разделяет массив на две части и сортирует их.
 - Если доступен "слот", создается новый поток для обработки части массива.
 - Если поток не может быть создан (нет свободных слотов), выполняется последовательная сортировка.
4. **Слияние результатов:**
 - После завершения сортировки каждой части массива вызывается функция `merge`.
5. **Проверка результата:**
 - Проверяется, отсортирован ли массив после выполнения программы.
6. **Вывод информации:**
 - Время выполнения программы.
 - Количество вызовов функций сортировки и слияния.
 - Количество созданных потоков.
7. **Освобождение ресурсов:**
 - Освобождается память, выделенная для массива.
 - Семафор автоматически освобождается системой (на macOS).

Особенности:

POSIX-семафоры (неименованные, `sem_init`) в macOS сейчас **объявлены устаревшими (deprecated)**. В некоторых версиях они могут возвращать ошибки (например, `ENOSYS`) или вообще не оказывать ожидаемого эффекта. То есть Apple прямо говорит: «Не стоит использовать неименованные POSIX-семафоры в современных macOS-приложениях». Из-за этого у нас могут возникнуть проблемы при запуске, когда семафор не блокирует или не даёт «слотов» потокам.

GCD-семафоры не просто не устаревшие, а наоборот — **рекомендуемый способ** организовать семафороподобную синхронизацию на macOS/iOS. Они активно используются внутри GCD (Grand Central Dispatch), который оптимизирован под многоядерные CPU, систему очередей и пулов потоков Apple.

Код программы

parallel_merge_sort.c

```
#include <stdio.h>

#include <stdlib.h>

#include <time.h>

#include <sys/time.h>

#include <pthread.h>

#include <dispatch/dispatch.h> // Для GCD-семафоров (macOS)


typedef struct {

    int *array;

    int left;

    int right;

} ThreadArgs;


// счетчики для проверки

static int merge_calls = 0; // сколько раз произошло слияние

static int sort_calls = 0; // сколько раз вызвана сортировка

static int threads_created = 0; // сколько потоков реально создано


static dispatch_semaphore_t gcd_sem = NULL;


// Слияние двух отсортированных подмассивов

void merge(int *array, int l, int m, int r) {
```

```
// Увеличим счётчик количества слияний (для подтверждения
"метода слияния")

__sync_fetch_and_add(&merge_calls, 1);

int n1 = m - l + 1;

int n2 = r - m;

int *L = (int *)malloc(n1 * sizeof(int));

int *R = (int *)malloc(n2 * sizeof(int));

if (!L || !R) {

    perror("malloc for merge");

    exit(EXIT_FAILURE);

}

for (int i = 0; i < n1; i++) {

    L[i] = array[l + i];

}

for (int j = 0; j < n2; j++) {

    R[j] = array[m + 1 + j];

}

int i = 0, j = 0;

int k = l;

while (i < n1 && j < n2) {

    if (L[i] <= R[j]) {

        array[k++] = L[i++];

    } else {
```

```

        array[k++] = R[j++];

    }

}

while (i < n1) {

    array[k++] = L[i++];

}

while (j < n2) {

    array[k++] = R[j++];

}


free(L);

free(R);

}

// Обычная рекурсивная сортировка слиянием.

void seq_merge_sort(int *array, int left, int right) {

    if (left < right) {

        int mid = left + (right - left) / 2;

        seq_merge_sort(array, left, mid);

        seq_merge_sort(array, mid + 1, right);

        merge(array, left, mid, right);

    }

}

```

```
// Параллельная сортировка слиянием с семафором

void *threaded_mergesort(void *args) {
    __sync_fetch_and_add(&sort_calls, 1);

    ThreadArgs *threadArgs = (ThreadArgs *)args;

    int *array = threadArgs->array;

    int left = threadArgs->left;

    int right = threadArgs->right;

    if (left < right) {

        int mid = left + (right - left) / 2;

        ThreadArgs leftArgs = { array, left, mid };

        ThreadArgs rightArgs = { array, mid + 1, right };

        pthread_t leftThread, rightThread;

        int leftCreated = 0, rightCreated = 0;

        long left_wait_res = dispatch_semaphore_wait(qcd_sem,
DISPATCH_TIME_NOW);

        if (left_wait_res == 0) {

            // Слот есть - пытаемся создать поток

            int ret = pthread_create(&leftThread, NULL,
threaded_mergesort, &leftArgs);
```

```
        if (ret == 0) {  
            __sync_fetch_and_add(&threads_created, 1);  
            leftCreated = 1;  
        } else {  
            // Если поток не удалось создать, вернём слот и  
            // делаем обычную сортировку  
            perror("pthread_create (left) failed");  
            dispatch_semaphore_signal(gcd_sem);  
            seq_merge_sort(array, left, mid);  
        }  
    } else {  
        // Нет свободного слота - делаем обычную сортировку  
        seq_merge_sort(array, left, mid);  
    }  
  
    long right_wait_res = dispatch_semaphore_wait(gcd_sem,  
DISPATCH_TIME_NOW);  
  
    if (right_wait_res == 0) {  
        int ret = pthread_create(&rightThread, NULL,  
threaded_mergesort, &rightArgs);  
  
        if (ret == 0) {  
            __sync_fetch_and_add(&threads_created, 1);  
            rightCreated = 1;  
        } else {  
            perror("pthread_create (right) failed");  
            dispatch_semaphore_signal(gcd_sem);  
        }  
    }  
}
```



```
        seq_merge_sort(array, mid + 1, right);  
    }  
  
    } else {  
  
        seq_merge_sort(array, mid + 1, right);  
  
    }  
  
    // Дожидаемся левого потока  
  
    if (leftCreated) {  
  
        pthread_join(leftThread, NULL);  
  
        // Освобождаем слот  
  
        dispatch_semaphore_signal(gcd_sem);  
  
    }  
  
    // Дожидаемся правого потока  
  
    if (rightCreated) {  
  
        pthread_join(rightThread, NULL);  
  
        dispatch_semaphore_signal(gcd_sem);  
  
    }  
  
    // Слияние  
  
    merge(array, left, mid, right);  
  
}  
  
return NULL;  
  
}
```

```
int main(int argc, char *argv[]) {

    if (argc < 3) {

        fprintf(stderr, "Usage: %s <max_threads> <array_size>\n",
argv[0]);

        return EXIT_FAILURE;

    }

    int max_threads = atoi(argv[1]);

    int array_size = atoi(argv[2]);

    if (max_threads <= 0 || array_size <= 0) {

        fprintf(stderr, "Error: max_threads and array_size must be
positive integers.\n");

        return EXIT_FAILURE;

    }

    int *array = (int *)malloc(array_size * sizeof(int));

    if (!array) {

        perror("malloc");

        return EXIT_FAILURE;

    }

    // Инициализируем массив случайными значениями

    srand((unsigned)time(NULL));

    for (int i = 0; i < array_size; i++) {

        array[i] = rand() % 1000000;

    }

}
```

```
gcd_sem = dispatch_semaphore_create(max_threads);

// Начинаем считать время

struct timeval start, end;

gettimeofday(&start, NULL);

// Запускаем параллельную сортировку

ThreadArgs args = { array, 0, array_size - 1 };

threaded_mergesort(&args);

gettimeofday(&end, NULL);

double elapsed = (end.tv_sec - start.tv_sec) +

                 (end.tv_usec - start.tv_usec) / 1000000.0;

// Проверка на отсортированность

int sorted = 1;

for (int i = 1; i < array_size; i++) {

    if (array[i] < array[i - 1]) {

        sorted = 0;

        break;

    }

}
```

```

printf("Array is %s\n", (sorted ? "sorted" : "NOT sorted"));

printf("Time taken: %.6f seconds\n", elapsed);

printf("Number of mergesort (threaded) calls: %d\n",
sort_calls);

printf("Number of merges: %d\n", merge_calls);

printf("Threads created: %d\n", threads_created);


free(array);

return EXIT_SUCCESS;
}

```

Протокол работы программы

Число потоков	Время исполнения (мс)	Ускорение	Эффективность
1	189458	1	1
2	187346	1,01127	0,50564
4	106772	1,77442	0,44360
8	106573	1,77773	0,22222
16	128937	1,46938	0,09184
32	199237	0,95092	0,02972

Ускорение показывает, во сколько раз применение параллельного алгоритма уменьшает время решения задачи по сравнению с последовательным алгоритмом. Ускорение определяется величиной $SN = T1 / TN$, где $T1$ – время выполнения на одном потоке, TN – время выполнения на N потоках.

Эффективность показывает, насколько хорошо используются ресурсы при параллельном выполнении алгоритма. Она определяется как отношение ускорения к количеству используемых потоков. Эффективность вычисляется по формуле $E = SN / N$, где SN – ускорение, а N – количество потоков.

dtruss:

```
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/LocalAuthenti-  
cation.framework/Support/SharedUtils.framework/Versions/A/SharedUtils\0", 0x7FF7B1C57A30,  
0x0) = -1 2  
stat64("/System/Library/Frameworks/LocalAuthentication.framework/Support/SharedUtils.  
framework/Versions/A/SharedUtils\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Apple  
VPA.framework/Versions/A/AppleVPA\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/AppleVPA.framework/Versions/A/AppleVPA\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/SAObjects.framework/Versions/A/SAObjects\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SAObj  
ects.framework/Versions/A/SAObjects\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/SAObjects.framework/Versions/A/SAObjects\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/DebugSymbols.framework/Versions/A/DebugS  
ymbols\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Debug  
Symbols.framework/Versions/A/DebugSymbols\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/DebugSymbols.framework/Versions/A/DebugS  
ymbols\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreSymbolication.framework/Versions/A/Cor  
eSymbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreSy  
mbolication.framework/Versions/A/CoreSymbolication\0", 0x7FF7B1C57A40, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreSymbolication.framework/Versions/A/Cor  
eSymbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreTime.framework/Versions/A/CoreTime\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreTi  
me.framework/Versions/A/CoreTime\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreTime.framework/Versions/A/CoreTime\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/Rapport.framework/Versions/A/Rapport\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Rappo  
rt.framework/Versions/A/Rapport\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/Rapport.framework/Versions/A/Rapport\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreDuetContext.framework/Versions/A/Core  
DuetContext\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreD  
uetContext.framework/Versions/A/CoreDuetContext\0", 0x7FF7B1C57A40, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreDuetContext.framework/Versions/A/Core  
DuetContext\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/Frameworks/Intents.framework/Versions/A/Intents\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Intents.frame  
work/Versions/A/Intents\0", 0x7FF7B1C57A60, 0x0) = -1 2  
stat64("/System/Library/Frameworks/Intents.framework/Versions/A/Intents\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/Apple80211.framework/Versions/A/Apple80211  
\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Apple8  
0211.framework/Versions/A/Apple80211\0", 0x7FF7B1C57A50, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/Apple80211.framework/Versions/A/Apple80211  
\0", 0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Library/PrivateFrameworks/CoreWiFi.framework/Versions/A/CoreWiFi\0",  
0x7FF7B1C57AD0, 0x0) = -1 2  
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreW  
iFi.framework/Versions/A/CoreWiFi\0", 0x7FF7B1C57A50, 0x0) = -1 2
```

```

stat64("/System/Library/PrivateFrameworks/CoreWiFi.framework/Versions/A/CoreWiFi\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BackBoardServices.framework/Versions/A/Back
kBoardServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BackB
oardServices.framework/Versions/A/BackBoardServices\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BackBoardServices.framework/Versions/A/Back
kBoardServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/LDAP.framew
ork/Versions/A/LDAP\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/LDAP.framework/Versions/A/LDAP\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/
TrustEvaluationAgent\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TrustE
valuationAgent.framework/Versions/A/TrustEvaluationAgent\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/
TrustEvaluationAgent\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DiskIm
ages.framework/Versions/A/DiskImages\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\
0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EAP80
21X.framework/Versions/A/EAP8021X\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/EAP8021X.framework/Versions/A/EAP8021X\
0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/
A/RemoteServiceDiscovery\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Remot
eServiceDiscovery.framework/Versions/A/RemoteServiceDiscovery\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/
A/RemoteServiceDiscovery\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RemoteXPC.framework/Versions/A/RemoteXP
C\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Remot
eXPC.framework/Versions/A/RemoteXPC\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RemoteXPC.framework/Versions/A/RemoteXP
C\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/EFILo
gin.framework/Versions/A/EFILogin\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/EFILogin.framework/Versions/A/EFILogin\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libcsfde.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcsfde.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libcsfde.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libcurl.4.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcurl.4.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libcurl.4.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
rt\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppSu
pport.framework/Versions/A/AppSupport\0", 0x7FF7B1C57A50, 0x0) = -1 2

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rt\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/AppSupport.framework/Versions/A/AppSupportServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/Frameworks/ApplicationServices.framework/Versions/A/ApplicationServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InternationalTextSearch.framework/Versions/A/InternationalTextSearch\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleAccount.framework/Versions/A/AppleAccount\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleAccount.framework/Versions/A/AppleAccount\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleAccount.framework/Versions/A/AppleAccount\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleIDSSOAuthentication.framework/Versions/A/AppleIDSSOAuthentication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitCBridding.framework/Versions/A/CryptoKitCBridding\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/Frameworks/Kerberos.framework/Versions/A/Libraries/libHeimdalProxy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingZip.framework/Versions/A/StreamingZip\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DuetActivityScheduler.framework/Versions/A/DuetActivityScheduler\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B1C57A70, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftObjectiveC.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftos.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2

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stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftos.dylib\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftos.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntentsFoundation.framework/Versions/A/Inte
ntsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Intents
Foundation.framework/Versions/A/IntentsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntentsFoundation.framework/Versions/A/Inte
ntsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/PushKit.framework/Versions/A/PushKit\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/PushKit.frame
work/Versions/A/PushKit\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/PushKit.framework/Versions/A/PushKit\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/C2.framework/Versions/A/C2\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/C2.fra
mework/Versions/A/C2\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/C2.framework/Versions/A/C2\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/QuickLookThumbnailing.framework/Versions/A/Quic
kLookThumbnailing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/QuickLookTh
umbnailing.framework/Versions/A/QuickLookThumbnailing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/QuickLookThumbnailing.framework/Versions/A/Quic
kLookThumbnailing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Espre
so.framework/Versions/A/Espresso\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Espresso.framework/Versions/A/Espresso\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ANEServices.framework/Versions/A/ANEServi
ces\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ANESe
rvices.framework/Versions/A/ANEServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ANEServices.framework/Versions/A/ANEServi
ces\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ProactiveSupport.framework/Versions/A/Proac
tiveSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Proacti
veSupport.framework/Versions/A/ProactiveSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ProactiveSupport.framework/Versions/A/Proac
tiveSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreDuetDaemonProtocol.framework/Versions
/A/CoreDuetDaemonProtocol\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreD
uetDaemonProtocol.framework/Versions/A/CoreDuetDaemonProtocol\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreDuetDaemonProtocol.framework/Versions
/A/CoreDuetDaemonProtocol\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RTCReporting.framework/Versions/A/RTCRe
porting\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/RTCRe
porting.framework/Versions/A/RTCReporting\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RTCReporting.framework/Versions/A/RTCRe
porting\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleNeuralEngine.framework/Versions/A/Ap
pleNeuralEngine\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Apple
NeuralEngine.framework/Versions/A/AppleNeuralEngine\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleNeuralEngine.framework/Versions/A/Ap
pleNeuralEngine\0", 0x7FF7B1C57AD0, 0x0) = -1 2

```



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stat64("/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreMIDI.fra
amework/Versions/A/CoreMIDI\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreMIDI.framework/Versions/A/CoreMIDI\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/I
OSurfaceAccelerator\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IOSurf
aceAccelerator.framework/Versions/A/IOSurfaceAccelerator\0", 0x7FF7B1C57A40, 0x0) = -1
2
stat64("/System/Library/PrivateFrameworks/IOSurfaceAccelerator.framework/Versions/A/I
OSurfaceAccelerator\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MediaRemote.framework/Versions/A/MediaRe
mote\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Media
Remote.framework/Versions/A/MediaRemote\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MediaRemote.framework/Versions/A/MediaRe
mote\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AssistantServices.framework/Versions/A/Assist
antServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Assista
ntServices.framework/Versions/A/AssistantServices\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AssistantServices.framework/Versions/A/Assist
antServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FMCoreLite.framework/Versions/A/FMCoreLi
te\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FMCor
eLite.framework/Versions/A/FMCoreLite\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FMCoreLite.framework/Versions/A/FMCoreLi
te\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libtidy.A.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libtidy.A.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libtidy.A.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/Engram.framework/Versions/A/Engram\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Engra
m.framework/Versions/A/Engram\0", 0x7FF7B1C57A60, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/Engram.framework/Versions/A/Engram\0",
stat64("/System/Library/PrivateFrameworks/AVFCapture.framework/Versions/A/AVFCaptu
re\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AVFCa
pture.framework/Versions/A/AVFCapture\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AVFCapture.framework/Versions/A/AVFCaptu
re\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/Quagga.framework/Versions/A/Quagga\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Quagg
a.framework/Versions/A/Quagga\0", 0x7FF7B1C57A60, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/Quagga.framework/Versions/A/Quagga\0",
stat64("/System/Library/PrivateFrameworks/CMCapture.framework/Versions/A/CMCaptur
e\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CMCa
pture.framework/Versions/A/CMCapture\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CMCapture.framework/Versions/A/CMCaptur
e\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CloudServices.framework/Versions/A/CloudSe
rvices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CloudS
ervices.framework/Versions/A/CloudServices\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CloudServices.framework/Versions/A/CloudSe
rvices\0", 0x7FF7B1C57AD0, 0x0) = -1 2

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0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/HID.framework/Versions/A/HID\0",
                                = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/HID.fr
                                amework/Versions/A/HID\0", 0x7FF7B1C57A60, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/HID.framework/Versions/A/HID\0",
                                0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/MediaServices.framework/Versions/A/MediaSe
                                rvices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Media
                                Services.framework/Versions/A/MediaServices\0", 0x7FF7B1C57A50, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/MediaServices.framework/Versions/A/MediaSe
                                rvices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/Marco.framework/Versions/A/Marco\0",
                                0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Marco.
                                framework/Versions/A/Marco\0", 0x7FF7B1C57A60, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/Marco.framework/Versions/A/Marco\0",
                                0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/ProactiveEventTracker.framework/Versions/A/
                                ProactiveEventTracker\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Proacti
                                veEventTracker.framework/Versions/A/ProactiveEventTracker\0", 0x7FF7B1C57A40, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/ProactiveEventTracker.framework/Versions/A/
                                ProactiveEventTracker\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/PhoneNumbers.framework/Versions/A/PhoneN
                                umbers\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Phone
                                Numbers.framework/Versions/A/PhoneNumbers\0", 0x7FF7B1C57A50, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/PhoneNumbers.framework/Versions/A/PhoneN
                                umbers\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/URLFormatting.framework/Versions/A/URLF
                                ormatting\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/URLFo
                                rmatting.framework/Versions/A/URLFormatting\0", 0x7FF7B1C57A50, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/URLFormatting.framework/Versions/A/URLF
                                ormatting\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/AXCoreUtilities.framework/Versions/A/AXCor
                                eUtilities\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AXCor
                                eUtilities.framework/Versions/A/AXCoreUtilities\0", 0x7FF7B1C57A40, 0x0) = -1 2
                                stat64("/System/Library/PrivateFrameworks/AXCoreUtilities.framework/Versions/A/AXCor
                                eUtilities\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libAccessibility.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libAccessibility.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libAccessibility.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                0x7FF7B1C57AD0, 0x0) stat64("/System/Library/Frameworks/NetFS.framework/Versions/A/NetFS\0",
                                = -1 2
                                ork/Versions/A/NetFS\0", 0x7FF7B1C57A60, 0x0) stat64("/System/Library/Frameworks/NetFS.framew
                                ork/Versions/A/NetFS\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftDarwin.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftDarwin.dylib\0",
                                = -1 2
                                stat64("/usr/lib/swift/libswiftDarwin.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/Frameworks/AVFoundation.framework/Versions/A/AVFoundation\
                                = -1 2
                                .framework/Versions/A/AVFoundation\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AVFoundation
                                = -1 2
                                0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/Frameworks/AVFoundation.framework/Versions/A/AVFoundation\
                                = -1 2

```

```

stat64("/usr/lib/libquic.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libquic.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libquic.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
icy\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
Policy.framework/Versions/A/SystemPolicy.framework/Versions/A/SystemPolicy\0", 0x7FF7B1C57A50, 0x0)      = -1 2
stat64("/System/Library/PrivateFrameworks/SystemPolicy.framework/Versions/A/SystemPolicy\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
Device\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
yDevice.framework/Versions/A/FindMyDevice.framework/Versions/A/FindMyDevice\0", 0x7FF7B1C57A50, 0x0)      = -1 2
Device\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
atureFlagsSupport\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
FeatureFlagsSupport.framework/Versions/A/FeatureFlagsSupport\0", 0x7FF7B1C57A40, 0x0)      = -1 2
atureFlagsSupport\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
0", 0x7FF7B1C57AD0, 0x0)      = -1 2
ices.framework/Versions/A/FTServices.framework/Versions/A/FTServices\0", 0x7FF7B1C57A50, 0x0)      = -1 2
0", 0x7FF7B1C57AD0, 0x0)      = -1 2
uage\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
age.framework/Versions/A/NaturalLanguage.framework/Versions/A/NaturalLanguage\0", 0x7FF7B1C57A50, 0x0)      = -1 2
uage\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
gSupport\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
gSupport.framework/Versions/A/LoggingSupport.framework/Versions/A/LoggingSupport\0", 0x7FF7B1C57A50, 0x0)      = -1 2
gSupport\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
allocStackLogging\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
StackLogging.framework/Versions/A/MallocStackLogging\0", 0x7FF7B1C57A40, 0x0)      = -1 2
allocStackLogging\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/libmis.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libmis.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libmis.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
RawCounter\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
awCounter.framework/Versions/A/GPURawCounter.framework/Versions/A/GPURawCounter\0", 0x7FF7B1C57A50, 0x0)      = -1 2
RawCounter\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/swift/libswiftCoreAudio.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
0x7FF7B1C57A70, 0x0)      = -1 2
stat64("/usr/lib/swift/libswiftCoreAudio.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2

```

```

", 0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreFoundation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftXPC.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreImage.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftIOKit.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftIOKit.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B1C57A50, 0x0) = -1 2
oto.framework/Versions/A/TrialProto\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B1C57AD0, 0x0) = -1 2
amework/Versions/A/TrialProto\0", 0x7FF7B1C57A60, 0x0) stat64("/System/Library/PrivateFrameworks/TrialProto.framework/Versions/A/TrialProto\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) stat64("/usr/lib/libbootpolicy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libbootpolicy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libbootpolicy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ackLogger\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/FeedbackLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B1C57A50, 0x0) = -1 2
ckLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/FeedbackLogger.framework/Versions/A/FeedbackLogger\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ackLogger\0", 0x7FF7B1C57AD0, 0x0) stat64("/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftsimd.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
eNetwork\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/CaptiveNetwork.framework/Versions/A/CaptiveNetwork\0", 0x7FF7B1C57A50, 0x0) = -1 2
eNetwork.framework/Versions/A/CaptiveNetwork\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/CaptiveNetwork.framework/Versions/A/CaptiveNetwork\0", 0x7FF7B1C57AD0, 0x0) = -1 2
eNetwork\0", 0x7FF7B1C57AD0, 0x0) stat64("/usr/lib/libncurses.5.4.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libncurses.5.4.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libncurses.5.4.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
AccelMemoryInfo\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/IOAccelMemoryInfo.framework/Versions/A/IOAccelMemoryInfo\0", 0x7FF7B1C57A40, 0x0) = -1 2
lMemoryInfo.framework/Versions/A/IOAccelMemoryInfo\0", 0x7FF7B1C57A40, 0x0) stat64("/System/Library/PrivateFrameworks/IOAccelMemoryInfo.framework/Versions/A/IOAccelMemoryInfo\0", 0x7FF7B1C57AD0, 0x0) = -1 2
AccelMemoryInfo\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/AOSKit.framework/Versions/A/AOSKit\0", 0x7FF7B1C57AD0, 0x0) = -1 2

```

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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AOSKit.framework/Versions/A/AOSKit\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AOSKit.framework/Versions/A/AOSKit\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriInstrumentation.framework/Versions/A/SiriInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriInstrumentation.framework/Versions/A/SiriInstrumentation\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriInstrumentation.framework/Versions/A/SiriInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vImage.framework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vImage.framework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B1C57A20, 0x0) = -1 2
stat64("/System/Library/Frameworks/Accelerate.framework/Versions/A/Frameworks/vImage.framework/Versions/A/Libraries/libCGInterfaces.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreLocation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreLocation.dylib\0", 0x7FF7B1C57A70, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreLocation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreMIDI.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCoreMIDI.dylib\0", 0x7FF7B1C57A70, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreMIDI.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MSUDDataAccessor.framework/Versions/A/MSUDDataAccessor\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MSUDDataAccessor.framework/Versions/A/MSUDDataAccessor\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MSUDDataAccessor.framework/Versions/A/MSUDDataAccessor\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SoftwareUpdateCoreSupport.framework/Versions/A/SoftwareUpdateCoreSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SoftwareUpdateCoreSupport.framework/Versions/A/SoftwareUpdateCoreSupport\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SoftwareUpdateCoreSupport.framework/Versions/A/SoftwareUpdateCoreSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libtailspin.dylib\0", 0x7FF7B1C57A80, 0x0) = -1 2
stat64("/usr/lib/libtailspin.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AttributeGraph.framework/Versions/A/AttributeGraph\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AttributeGraph.framework/Versions/A/AttributeGraph\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AttributeGraph.framework/Versions/A/AttributeGraph\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/Vision.framework/libfaceCore.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/TextRecognition.framework/Versions/A/TextRecognition\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0", 0x7FF7B1C57AD0, 0x0) = -1 2

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k.framework/Versions/A/Futhark\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Futhark.framework/Versions/A/Futhark\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioeFoundation.framework/Versions/A/Bioe
eFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Bioe
Foundation.framework/Versions/A/BioeFoundation\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioeFoundation.framework/Versions/A/Biom
eFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Inertia
Cam.framework/Versions/A/InertiaCam\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InertiaCam.framework/Versions/A/InertiaCam
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftMetal.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftMetal.dylib\0",
stat64("/usr/lib/swift/libswiftMetal.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCompression.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftCompression.dylib\0",
stat64("/usr/lib/swift/libswiftCompression.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FTAWD.framework/Versions/A/FTAWD\0",
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FTAW
D.framework/Versions/A/FTAWD\0", 0x7FF7B1C57A60, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FTAWD.framework/Versions/A/FTAWD\0",
stat64("/usr/lib/libFDR.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libFDR.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libFDR.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
reams\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioeStreams.framework/Versions/A/BioeSt
Streams.framework/Versions/A/BioeStreams\0", 0x7FF7B1C57A50, 0x0) = -1 2
reams\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ons/A/SoftwareUpdateCoreConnect\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Softwa
reUpdateCoreConnect\0", 0x7FF7B1C57A30, 0x0) = -1 2
ons/A/SoftwareUpdateCoreConnect\0", 0x7FF7B1C57AD0, 0x0) = -1 2
cs\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/OSAna
lytics.framework/Versions/A/OSAnalytics\0", 0x7FF7B1C57A50, 0x0) = -1 2
cs\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/OSAnalytics.framework/Versions/A/OSAnalyti
etworkServiceProxy\0", 0x7FF7B1C57AD0, 0x0) = -1 2
kServiceProxy.framework/Versions/A/NetworkServiceProxy\0", 0x7FF7B1C57A40, 0x0) = -1 2
etworkServiceProxy\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftQuartzCore.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftQuartzCore.dylib\0",

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stat64("/usr/lib/swift/libswiftQuartzCore.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperf.framework/Versions/A/kperf\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/kperf.f
ramework/Versions/A/kperf\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperf.framework/Versions/A/kperf\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ktrace.framework/Versions/A/ktrace\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ktrace.
framework/Versions/A/ktrace\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ktrace.framework/Versions/A/ktrace\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MobileSystemServices.framework/Versions/A/
MobileSystemServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Mobile
SystemServices.framework/Versions/A/MobileSystemServices\0", 0x7FF7B1C57A40, 0x0) =
-1 2
stat64("/System/Library/PrivateFrameworks/MobileSystemServices.framework/Versions/A/
MobileSystemServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpo
stSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Signpo
stSupport.framework/Versions/A/SignpostSupport\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SignpostSupport.framework/Versions/A/Signpo
stSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SampleAnalysis.framework/Versions/A/Sample
Analysis\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Sample
Analysis.framework/Versions/A/SampleAnalysis\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SampleAnalysis.framework/Versions/A/Sample
Analysis\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libamsupport.dylib\0",
0x7FF7B1C57A80, 0x0) = -1 2
stat64("/usr/lib/libamsupport.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMePubSub.framework/Versions/A/BioMePu
bSub\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BioMe
PubSub.framework/Versions/A/BioMePubSub\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMePubSub.framework/Versions/A/BioMePu
bSub\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMeStorage.framework/Versions/A/BioMeSto
rage\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BioMe
Storage.framework/Versions/A/BioMeStorage\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BioMeStorage.framework/Versions/A/BioMeSto
rage\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DeviceIdentity.framework/Versions/A/DeviceId
entity\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Devicel
identity.framework/Versions/A/Devicelidentity\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/DeviceIdentity.framework/Versions/A/DeviceId
entity\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/Sym
ptomReporter\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Sympt
omReporter.framework/Versions/A/SymptomReporter\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SymptomReporter.framework/Versions/A/Sym
ptomReporter\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftUniformTypeIdentifiers.dylib\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftUniformTypeIdentifiers.
dylib\0", 0x7FF7B1C57A70, 0x0) = -1 2

```

```

= -1 2 stat64("/usr/lib/swift/libswiftUniformTypeIdentifiers.dylib\0", 0x7FF7B1C57AD0, 0x0)
stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftAccelerate.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/libpartition2_dynamic.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0",
er.framework/Versions/A/AFKUser\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AFKUser.framework/Versions/A/AFKUser\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Osprey.framework/Versions/A/Osprey\0",
.framework/Versions/A/Osprey\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCryptoTokenKit.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftCoreMedia.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
ata.framework/Versions/A/kperfdata\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/kperfdata.framework/Versions/A/kperfdata\0",
kSymbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/BulkSy
mbolication.framework/Versions/A/BulkSymbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
kSymbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftOSLog.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftAVFoundation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Symbolic
ication.framework/Versions/A/Symbolication\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
ramework/Versions/A/Netrb\0", 0x7FF7B1C57AD0, 0x0) = -1 2

```



```

0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/Netrb.framework/Versions/A/Netrb\0",
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/OSLog.framework/Versions/A/OSLog\0",
work/Versions/A/OSLog\0", 0x7FF7B1C57A60, 0x0) stat64("/System/Library/PrivateFrameworks/OSLog.frame
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/OSLog.framework/Versions/A/OSLog\0",
internalSwiftProtobuf\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/I
InternalSwiftProtobuf.framework/Versions/A/InternalSwiftProtobuf\0", 0x7FF7B1C57A40, 0x0) stat64("/System/Library/PrivateFrameworks/InternalSwiftProtobuf.framework/Versions/A/I
y\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/HIDDisplay.framework/Versions/A/HIDDisplay
splay.framework/Versions/A/HIDDisplay\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/HIDDi
y\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/HIDDisplay.framework/Versions/A/HIDDispla
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/CryptoKit.framework/Versions/A/CryptoKit\0",
mework/Versions/A/CryptoKit\0", 0x7FF7B1C57A60, 0x0) stat64("/System/Library/PrivateFrameworks/CryptoKit.fra
0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/CryptoKit.framework/Versions/A/CryptoKit\0",
stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libedit.3.dylib\0", 0x7FF7B1C57A80,
stat64("/usr/lib/libedit.3.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ags\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/FeatureFlags.framework/Versions/A/FeatureFl
eFlags.framework/Versions/A/FeatureFlags\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/Featur
ags\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/FeatureFlags.framework/Versions/A/FeatureFl
stat64("/usr/lib/swift/libswiftNaturalLanguage.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0", 0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftNaturalLanguage.dylib\
stat64("/usr/lib/swift/libswiftNaturalLanguage.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
eerToPeer\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/WiFiPeerToPeer.framework/Versions/A/WiFiP
erToPeer.framework/Versions/A/WiFiPeerToPeer\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/WiFiPe
erToPeer\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/WiFiPeerToPeer.framework/Versions/A/WiFiP
nfigProfileHelper\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/ConfigProfileHelper.framework/Versions/A/Co
nfigProfileHelper.framework/Versions/A/ConfigProfileHelper\0", 0x7FF7B1C57A40, 0x0) stat64("/System/Library/PrivateFrameworks/Config
nfigProfileHelper\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/ConfigProfileHelper.framework/Versions/A/Co
mpiler\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/ANECCompiler.framework/Versions/A/ANEC
ompiler.framework/Versions/A/ANECCompiler\0", 0x7FF7B1C57A50, 0x0) stat64("/System/Library/PrivateFrameworks/ANEC
ompiler\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/ANECCompiler.framework/Versions/A/ANEC
ache.dylib\0", 0x7FF7B1C57AD0, 0x0) stat64("/System/Library/PrivateFrameworks/OpenGL.framework/Versions/A/Libraries/libCoreFSC
ework/Versions/A/Libraries/libCoreFSCache.dylib\0", 0x7FF7B1C57A40, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.fram

```

stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCoreFSCache.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCoreVMClient.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCoreVMClient.dylib", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCoreVMClient.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/OpenGL", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/OpenGL", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/OpenGL", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCVMSPIDuginSupport.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCVMSPIDuginSupport.dylib", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libCVMSPIDuginSupport.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGFXShared.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGFXShared.dylib", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGFXShared.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLImage.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLImage.dylib", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLImage.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLU.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLU.dylib", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGLU.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGL.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGL.dylib", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/libGL.dylib", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenCL.framework/Versions/A/OpenCL", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/OpenCL.framework/Versions/A/OpenCL", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/OpenCL.framework/Versions/A/OpenCL", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/AVFAudio.framework/Versions/A/AVFAudio", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/AVFAudio.framework/Versions/A/AVFAudio", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/Frameworks/AVFAudio.framework/Versions/A/AVFAudio", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreTransferable.framework/Versions/A/CoreTransferable", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/Frameworks/CoreTransferable.framework/Versions/A/CoreTransferable", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/Frameworks/CoreTransferable.framework/Versions/A/CoreTransferable", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/Frameworks/ExtensionFoundation.framework/Versions/A/ExtensionFoundation", 0x7FF7B1C57AD0, 0x0) = -1 2

ndation.framework/Versions/A/ExtensionFoundation\0", 0x7FF7B1C57A40, 0x0) = -1 2
nFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
rameworks/MPSBenchmarkLoop.framework/Versions/A/Fra
0x7FF7B1C57AD0, 0x0) = -1 2
anceShaders.framework/Versions/A/Frameworks/MPSBenchmarkLoop.framework/Versions/A/MP
SBenchmarkLoop\0", 0x7FF7B1C57A10, 0x0) = -1 2
ameworks/MPSBenchmarkLoop.framework/Versions/A/MPSBenchmarkLoop\0",
0x7FF7B1C57AD0, 0x0) = -1 2
ameworks/MPSFunctions.framework/Versions/A/MPSFunctions\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
anceShaders.framework/Versions/A/Frameworks/MPSFunctions.framework/Versions/A/MPSFuncti
ons\0", 0x7FF7B1C57A20, 0x0) = -1 2
ameworks/MPSFunctions.framework/Versions/A/MPSFunctions\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
/A/MetalPerformanceShadersGraph.framework/Versions
anceShadersGraph.framework/Versions/A/MetalPerformanceShadersGraph\0", 0x7FF7B1C57A30,
0x0) = -1 2
/A/MetalPerformanceShadersGraph.framework/Versions
thYouCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
uCore.framework/Versions/A/SharedWithYouCore\0", 0x7FF7B1C57A50, 0x0) = -1 2
thYouCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
oundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
oundation.framework/Versions/A/AAAFoundation\0", 0x7FF7B1C57A50, 0x0) = -1 2
oundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
AAAFoundationSwift\0", 0x7FF7B1C57AD0, 0x0) = -1 2
oundationSwift.framework/Versions/A/AAAFoundationSwift\0", 0x7FF7B1C57A40, 0x0) =
-1 2
AAAFoundationSwift\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ateGPU\0", 0x7FF7B1C57AD0, 0x0) = -1 2
ateGPU.framework/Versions/A/AccelerateGPU\0", 0x7FF7B1C57A50, 0x0) = -1 2
ateGPU\0", 0x7FF7B1C57AD0, 0x0) = -1 2
s/A/AppleDeviceQuerySupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
DeviceQuerySupport.framework/Versions/A/AppleDeviceQuerySupport\0", 0x7FF7B1C57A30, 0x0)
= -1 2
s/A/AppleDeviceQuerySupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
FlatBuffers\0", 0x7FF7B1C57AD0, 0x0) = -1 2
latBuffers.framework/Versions/A/AppleFlatBuffers\0", 0x7FF7B1C57A40, 0x0) = -1 2
FlatBuffers\0", 0x7FF7B1C57AD0, 0x0) = -1 2
PEGXL\0", 0x7FF7B1C57AD0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/AppleJ
PEGXL.framework/Versions/A/AppleJPEGXL0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleJPEGXL.framework/Versions/A/AppleJ
PEGXL0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleKeyStore.framework/Versions/A/AppleK
eyStore0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Apple
KeyStore.framework/Versions/A/AppleKeyStore0", 0x7FF7B1C57A56, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleKeyStore.framework/Versions/A/AppleK
eyStore0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleMobileFileIntegrity.framework/Versions/
A/AppleMobileFileIntegrity0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Apple
MobileFileIntegrity.framework/Versions/A/AppleMobileFileIntegrity0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AppleMobileFileIntegrity.framework/Versions/
A/AppleMobileFileIntegrity0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AtomicInternal.framework/Versions/A/Atomic
sInternal0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Atomic
sInternal.framework/Versions/A/AtomicInternal0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AtomicInternal.framework/Versions/A/Atomic
sInternal0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AudioAnalytics.framework/Versions/A/AudioA
nalytics0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Audio
Analytics.framework/Versions/A/AudioAnalytics0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/AudioAnalytics.framework/Versions/A/AudioA
nalytics0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeDSL.framework/Versions/A/BiomeDSL0
", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Biome
DSL.framework/Versions/A/BiomeDSL0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeDSL.framework/Versions/A/BiomeDSL0
", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeFlexibleStorage.framework/Versions/A/B
iomeFlexibleStorage0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Biome
FlexibleStorage.framework/Versions/A/BiomeFlexibleStorage0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeFlexibleStorage.framework/Versions/A/B
iomeFlexibleStorage0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeLibrary.framework/Versions/A/BiomeLi
brary0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Biome
Library.framework/Versions/A/BiomeLibrary0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeLibrary.framework/Versions/A/BiomeLi
brary0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeSync.framework/Versions/A/BiomeSync\
0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Biome
Sync.framework/Versions/A/BiomeSync0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/BiomeSync.framework/Versions/A/BiomeSync\
0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CMImaging.framework/Versions/A/CMImagin
g0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CMIm
aging.framework/Versions/A/CMImaging0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CMImaging.framework/Versions/A/CMImagin
g0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CMPhoto.framework/Versions/A/CMPhoto0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CMPh
oto.framework/Versions/A/CMPhoto0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CMPhoto.framework/Versions/A/CMPhoto0",
0x7FF7B1C57AD0, 0x0) = -1 2

ts\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CascadeSets.framework/Versions/A/CascadeSets\0", 0x7FF7B1C57A50, 0x0) = -1 2
ts\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CloudAssets.framework/Versions/A/CloudAssets\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CloudAssets.framework/Versions/A/CloudAssets\0", 0x7FF7B1C57A50, 0x0) = -1 2
ts\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CollectionsInternal.framework/Versions/A/CollectionsInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CollectionsInternal.framework/Versions/A/CollectionsInternal\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CollectionsInternal.framework/Versions/A/CollectionsInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreSceneUnderstanding.framework/Versions/A/CoreSceneUnderstanding\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreSceneUnderstanding.framework/Versions/A/CoreSceneUnderstanding\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreSceneUnderstanding.framework/Versions/A/CoreSceneUnderstanding\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreUtilsExtras.framework/Versions/A/CoreUtilsExtras\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CoreUtilsExtras.framework/Versions/A/CoreUtilsExtras\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CoreUtilsExtras.framework/Versions/A/CoreUtilsExtras\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitPrivate.framework/Versions/A/CryptoKitPrivate\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/CryptoKitPrivate.framework/Versions/A/CryptoKitPrivate\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/CryptoKitPrivate.framework/Versions/A/CryptoKitPrivate\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Darwinup.framework/Versions/A/Darwinup\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Darwinup.framework/Versions/A/Darwinup\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Darwinup.framework/Versions/A/Darwinup\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Dendrite.framework/Versions/A/Dendrite\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Dendrite.framework/Versions/A/Dendrite\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Dendrite.framework/Versions/A/Dendrite\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FontServices.framework/Versions/A/FontServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FontServices.framework/Versions/A/FontServices\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FontServices.framework/Versions/A/FontServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FontServices.framework/libXTFontStaticRegistryData.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FontServices.framework/libXTFontStaticRegistryData.dylib\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FontServices.framework/libXTFontStaticRegistryData.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/FramePacing.framework/Versions/A/FramePacing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/FramePacing.framework/Versions/A/FramePacing\0", 0x7FF7B1C57A50, 0x0) = -1 2

ing\0", stat64("/System/Library/PrivateFrameworks/FramePacing.framework/Versions/A/FramePac
aries/libGPUCompilerUtils.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPUCompiler.framework/Versions/32023/Libr
ompiler.framework/Versions/32023/Libraries/libGPUCompilerUtils.dylib\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPUCompiler.framework/Versions/32023/Libr
aries/libllvm-flatbuffers.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPUCompiler.framework/Versions/32023/Libr
aries/libllvm-flatbuffers.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GPUC
ompiler.framework/Versions/32023/Libraries/libllvm-flatbuffers.dylib\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GPUCompiler.framework/Versions/32023/Libr
aries/libllvm-flatbuffers.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GRDBInternal.framework/Versions/A/GRDBI
nternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GRDB
Internal.framework/Versions/A/GRDBInternal\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GRDBInternal.framework/Versions/A/GRDBI
nternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctions.framework/Versions/A/G
enerativeFunctions\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Genera
tiveFunctions.framework/Versions/A/GenerativeFunctions\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctions.framework/Versions/A/G
enerativeFunctions\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsFoundation.framework/Ve
rsions/A/GenerativeFunctionsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Genera
tiveFunctionsFoundation.framework/Versions/A/GenerativeFunctionsFoundation\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsFoundation.framework/Ve
rsions/A/GenerativeFunctionsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsInstrumentation.framewo
rk/Versions/A/GenerativeFunctionsInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Genera
tiveFunctionsInstrumentation.framework/Versions/A/GenerativeFunctionsInstrumentation\0", 0x7FF7B1C57A20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeFunctionsInstrumentation.framewo
rk/Versions/A/GenerativeFunctionsInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeModels.framework/Versions/A/Gene
rativeModels\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Genera
tiveModels.framework/Versions/A/GenerativeModels\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeModels.framework/Versions/A/Gene
rativeModels\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeModelsFoundation.framework/Versi
ons/A/GenerativeModelsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Genera
tiveModelsFoundation.framework/Versions/A/GenerativeModelsFoundation\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GenerativeModelsFoundation.framework/Versi
ons/A/GenerativeModelsFoundation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GeoServicesCore.framework/Versions/A/GeoSe
rvicesCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/GeoSer
vicesCore.framework/Versions/A/GeoServicesCore\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/GeoServicesCore.framework/Versions/A/GeoSe
rvicesCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IO80211.framework/Versions/A/IO80211\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IO8021
1.framework/Versions/A/IO80211\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IO80211.framework/Versions/A/IO80211\0", 0x7FF7B1C57AD0, 0x0) = -1 2

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stat64("/System/Library/PrivateFrameworks/IPConfiguration.framework/Versions/A/IPCon
figuration\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/IPConf
iguration.framework/Versions/A/IPConfiguration\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IPConfiguration.framework/Versions/A/IPCon
figuration\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InstalledContentLibrary.framework/Versions/
A/InstalledContentLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Installe
dContentLibrary.framework/Versions/A/InstalledContentLibrary\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/InstalledContentLibrary.framework/Versions/
A/InstalledContentLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntelligencePlatformLibrary.framework/Versio
ns/A/IntelligencePlatformLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Intellig
encePlatformLibrary.framework/Versions/A/IntelligencePlatformLibrary\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IntelligencePlatformLibrary.framework/Versio
ns/A/IntelligencePlatformLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IsolatedCoreAudioClient.framework/Versions/
A/IsolatedCoreAudioClient\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Isolate
dCoreAudioClient.framework/Versions/A/IsolatedCoreAudioClient\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/IsolatedCoreAudioClient.framework/Versions/
A/IsolatedCoreAudioClient\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/LocalAuthenticationCore.framework/Versions/
A/LocalAuthenticationCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/LocalA
uthenticationCore.framework/Versions/A/LocalAuthenticationCore\0", 0x7FF7B1C57A30, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/LocalAuthenticationCore.framework/Versions/
A/LocalAuthenticationCore\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MIL.framework/Versions/A/MIL\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MIL.fr
amework/Versions/A/MIL\0", 0x7FF7B1C57A60, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MIL.framework/Versions/A/MIL\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MIL.framework/Versions/A/MIL\0",
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MILAss
etIO.framework/Versions/A/MILAssetIO\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILAssetIO.framework/Versions/A/MILAssetIO
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILAssetIO.framework/Versions/A/MILAssetIO
\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILCompilerRuntime.framework/Versions/A/
MLCompilerRuntime\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MILCp
mpilerRuntime.framework/Versions/A/MILCompilerRuntime\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILCompilerRuntime.framework/Versions/A/
MLCompilerRuntime\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILCompilerServices.framework/Versions/A/M
LCompilerServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/MILCo
mpilerServices.framework/Versions/A/MILCompilerServices\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MILCompilerServices.framework/Versions/A/M
LCompilerServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MessageSecurity.framework/Versions/A/Messa
geSecurity\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Messag
eSecurity.framework/Versions/A/MessageSecurity\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/MessageSecurity.framework/Versions/A/Messa
geSecurity\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/ModelCatalog.framework/Versions/A/ModelCa
talog\0", 0x7FF7B1C57AD0, 0x0) = -1 2

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stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Model
 Catalog.framework/Versions/A/ModelCatalog\0", 0x7FF7B1C57A50, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ModelCatalog.framework/Versions/A/ModelCa
 talog\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ModelManagerServices.framework/Versions/A/
 ModelManagerServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Model
 ManagerServices.framework/Versions/A/ModelManagerServices\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ModelManagerServices.framework/Versions/A/
 ModelManagerServices\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ParsingInternal.framework/Versions/A/Parsing
 Internal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Parsin
 gInternal.framework/Versions/A/ParsingInternal\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ParsingInternal.framework/Versions/A/Parsing
 Internal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PhotosensitivityProcessing.framework/Versions
 /A/PhotosensitivityProcessing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Photos
 ensitivityProcessing.framework/Versions/A/PhotosensitivityProcessing\0", 0x7FF7B1C57A30, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PhotosensitivityProcessing.framework/Versions
 /A/PhotosensitivityProcessing\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PoirotSQLite.framework/Versions/A/PoirotSQ
 Lite\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PoirotS
 QLite.framework/Versions/A/PoirotSQLite\0", 0x7FF7B1C57A50, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PoirotSQLite.framework/Versions/A/PoirotSQ
 Lite\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PoirotSchematizer.framework/Versions/A/Poiro
 tSchematizer\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/PoirotS
 chematizer.framework/Versions/A/PoirotSchematizer\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PoirotSchematizer.framework/Versions/A/Poiro
 tSchematizer\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ProDisplayLibrary.framework/Versions/A/Pro
 DisplayLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/ProDis
 playLibrary.framework/Versions/A/ProDisplayLibrary\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ProDisplayLibrary.framework/Versions/A/Pro
 DisplayLibrary\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ProactiveDaemonSupport.framework/Versions/
 A/ProactiveDaemonSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Proacti
 veDaemonSupport.framework/Versions/A/ProactiveDaemonSupport\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ProactiveDaemonSupport.framework/Versions/
 A/ProactiveDaemonSupport\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PromptKit.framework/Versions/A/PromptKit/0
 ", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Prompt
 Kit.framework/Versions/A/PromptKit\0", 0x7FF7B1C57A50, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/PromptKit.framework/Versions/A/PromptKit/0
 ", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/Refle
 ctionInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Reflect
 ionInternal.framework/Versions/A/ReflectionInternal\0", 0x7FF7B1C57A40, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/ReflectionInternal.framework/Versions/A/Refle
 ctionInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/Runti
 meInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
 stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Runti
 meInternal.framework/Versions/A/RuntimeInternal\0", 0x7FF7B1C57A40, 0x0) = -1 2


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meInternal0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/RuntimeInternal.framework/Versions/A/Run
ons/A/SensitiveContentAnalysisML\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Sensi
veContentAnalysisML.framework/Versions/A/SensitiveContentAnalysisML\0", 0x7FF7B1C57A30,
0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SensitiveContentAnalysisML.framework/Versi
ons/A/SensitiveContentAnalysisML\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/S
entencePieceInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Senten
cePieceInternal.framework/Versions/A/SentencePieceInternal\0", 0x7FF7B1C57A40, 0x0) = -1
2
stat64("/System/Library/PrivateFrameworks/SentencePieceInternal.framework/Versions/A/S
entencePieceInternal\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalyt
ics\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriAn
alytics.framework/Versions/A/SiriAnalytics\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriAnalytics.framework/Versions/A/SiriAnalyt
ics\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Version
s/A/SiriCrossDeviceArbitration\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCro
ssDeviceArbitration.framework/Versions/A/SiriCrossDeviceArbitration\0", 0x7FF7B1C57A30, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitration.framework/Version
s/A/SiriCrossDeviceArbitration\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework
/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriCro
ssDeviceArbitrationFeedback.framework/Versions/A/SiriCrossDeviceArbitrationFeedback\0",
0x7FF7B1C57A20, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriCrossDeviceArbitrationFeedback.framework
/Versions/A/SiriCrossDeviceArbitrationFeedback\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriPowerInstrumentation.framework/Versions
/A/SiriPowerInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriPo
werInstrumentation.framework/Versions/A/SiriPowerInstrumentation\0", 0x7FF7B1C57A30, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/SiriPowerInstrumentation.framework/Versions
/A/SiriPowerInstrumentation\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriTT
S.framework/Versions/A/SiriTTS\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriTTS.framework/Versions/A/SiriTTS\0",
0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriTTSService.framework/Versions/A/SiriTTS
Service\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/SiriTT
SService.framework/Versions/A/SiriTTSService\0", 0x7FF7B1C57A50, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/SiriTTSService.framework/Versions/A/SiriTTS
Service\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/Str
eamingExtractor\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Stream
ingExtractor.framework/Versions/A/StreamingExtractor\0", 0x7FF7B1C57A40, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/StreamingExtractor.framework/Versions/A/Str
eamingExtractor\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/System/Library/PrivateFrameworks/Symptoms.framework/Versions/A/Frameworks
/SymptomAnalytics.framework/Versions/A/SymptomAnalytics\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Sympt
oms.framework/Versions/A/Frameworks/SymptomAnalytics.framework/Versions/A/SymptomAnaly
tics\0", 0x7FF7B1C57A20, 0x0) = -1 2

```

```

stat64("/System/Library/PrivateFrameworks/Symptoms.framework/Versions/A/Frameworks
SymptomAnalytics.framework/Versions/A/SymptomAnalytics0", 0x7FF7B1C57AD0, 0x0)
= -1 2
TailspinSymbolication0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Tailspi
nSymbolication.framework/Versions/A/TailspinSymbolication0", 0x7FF7B1C57A40, 0x0)
= -1 2
TailspinSymbolication0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/Tightbeam.framework/Versions/A/Tightbeam\0
", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Tightb
eam.framework/Versions/A/Tightbeam0", 0x7FF7B1C57A50, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/Tightbeam.framework/Versions/A/Tightbeam\0
", 0x7FF7B1C57AD0, 0x0)
= -1 2
Generation0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Token
Generation.framework/Versions/A/TokenGeneration0", 0x7FF7B1C57A40, 0x0)
= -1 2
Generation0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/
TokenGenerationCore0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Token
GenerationCore.framework/Versions/A/TokenGenerationCore0", 0x7FF7B1C57A40, 0x0)
= -1 2
stat64("/System/Library/PrivateFrameworks/TokenGenerationCore.framework/Versions/A/
A/UnifiedAssetFramework0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Unified
AssetFramework.framework/Versions/A/UnifiedAssetFramework0", 0x7FF7B1C57A40, 0x0)
= -1 2
A/UnifiedAssetFramework0", 0x7FF7B1C57AD0, 0x0)
= -1 2
rch\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/PrivateFrameworks/Vector
Search.framework/Versions/A/VectorSearch0", 0x7FF7B1C57A50, 0x0)
= -1 2
rch\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
work/Versions/A/VideoToolboxParavirtualizationSupport0", 0x7FF7B1C57AD0, 0x0)
= -1 2
oolboxParavirtualizationSupport.framework/Versions/A/VideoToolboxParavirtualizationSupport0",
0x7FF7B1C57A20, 0x0)
= -1 2
work/Versions/A/VideoToolboxParavirtualizationSupport0", 0x7FF7B1C57AD0, 0x0)
= -1 2
0", 0x7FF7B1C57AD0, 0x0)
= -1 2
Core.framework/Versions/A/VisionCore0", 0x7FF7B1C57A50, 0x0)
= -1 2
0", 0x7FF7B1C57AD0, 0x0)
= -1 2
ort0", 0x7FF7B1C57AD0, 0x0)
= -1 2
ppport.framework/Versions/A/XPCSupport0", 0x7FF7B1C57A50, 0x0)
= -1 2
ort0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
0x7FF7B1C57A70, 0x0)
= -1 2
stat64("/usr/lib/libAXSafeCategoryBundle.dylib\0", 0x7FF7B1C57AD0, 0x0)
= -1 2
stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B1C57AD0, 0x0)
= -1 2

```

```

0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libAppleArchive.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libAppleArchive.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libCoreEntitlements.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libCoreEntitlements.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libRosetta.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libRosetta.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libTLE.dylib\0", 0x7FF7B1C57A80,
                                = -1 2
                                stat64("/usr/lib/libTLE.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcrypto.46.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libcrypto.46.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcupolicy.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libcupolicy.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libmrc.dylib\0", 0x7FF7B1C57A80,
                                = -1 2
                                stat64("/usr/lib/libmrc.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A80, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libnwswifttls.dylib\0",
                                = -1 2
                                stat64("/usr/lib/libnwswifttls.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libssl.48.dylib\0", 0x7FF7B1C57A80,
                                = -1 2
                                stat64("/usr/lib/libssl.48.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftDistributed.dylib\0",
                                = -1 2
                                stat64("/usr/lib/swift/libswiftDistributed.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftFileProvider.dylib\0",
                                = -1 2
                                stat64("/usr/lib/swift/libswiftFileProvider.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftMLCompute.dylib\0",
                                = -1 2
                                stat64("/usr/lib/swift/libswiftMLCompute.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftObservation.dylib\0",
                                = -1 2
                                stat64("/usr/lib/swift/libswiftObservation.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
                                stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftRegexBuilder.dylib\0",
                                = -1 2

```

```

stat64("/usr/lib/swift/libswiftRegexBuilder.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B1C57AD0, 0x0)    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftSynchronization.dylib\0", 0x7FF7B1C57AD0, 0x0)    = -1 2
stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftSystem.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B1C57AD0, 0x0)    = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_Builtin_float.dylib\0", 0x7FF7B1C57AD0, 0x0)    = -1 2
stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_Concurrency.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_RegexParser.dylib\0", 0x7FF7B1C57AD0, 0x0)      = -1 2
stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B1C57AD0, 0x0)  = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_StringProcessing.dylib\0", 0x7FF7B1C57AD0, 0x0)  = -1 2
stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_errno.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B1C57AD0, 0x0)             = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_math.dylib\0", 0x7FF7B1C57AD0, 0x0)             = -1 2
stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B1C57AD0, 0x0)           = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_signal.dylib\0", 0x7FF7B1C57AD0, 0x0)           = -1 2
stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_stdio.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B1C57AD0, 0x0)             = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswift_time.dylib\0", 0x7FF7B1C57AD0, 0x0)             = -1 2
stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B1C57AD0, 0x0)          = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftsys_time.dylib\0", 0x7FF7B1C57AD0, 0x0)          = -1 2
stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2
stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/swift/libswiftunistd.dylib\0", 0x7FF7B1C57AD0, 0x0)            = -1 2

```

```

= -1 2 stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B1C57AD0, 0x0)
lib\0", 0x7FF7B1C57A70, 0x0) = -1 2
= -1 2 stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B1C57AD0, 0x0)
stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) = -1 2
stat64("/usr/lib/system/libsystem_eligibility.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
0x7FF7B1C57A70, 0x0) = -1 2
stat64("/usr/lib/system/libsystem_sanitizers.dylib\0", 0x7FF7B1C57AD0, 0x0) = -1 2
= 3 0 open("/Users/romanmarkin/Documents/OS_labs/lab_2/parallel_merge_sort\0", 0x0, 0x0)
__mac_syscall(0x7FF819E34F23, 0x2, 0x7FF7B1C58200) = 0 0
map_with_linking_np(0x7FF7B1C58170, 0x1, 0x7FF7B1C581A0) = -1 22
close(0x3) = 0 0
mprotect(0x10E298000, 0x4000, 0x1) = 0 0
open("/dev/dtracehelper\0", 0x2, 0x0) = 3 0
ioctl(0x3, 0x80086804, 0x7FF7B1C57638) = 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) = 28788 0
shm_open(0x7FF819FE0F42, 0x0, 0x19FDF388) = 3 0
fstat64(0x3, 0x7FF7B1C57D60, 0x0) = 0 0
mmap(0x0, 0x5000, 0x1, 0x40001, 0x3, 0x0) = 0x10E2A6000 0
close(0x3) = 0 0
csops(0x7074, 0x0, 0x7FF7B1C57E94) = 0 0
ioctl(0x2, 0x4004667A, 0x7FF7B1C57E24) = 0 0
mprotect(0x10E2B0000, 0x1000, 0x0) = 0 0
mprotect(0x10E2BC000, 0x1000, 0x0) = 0 0
mprotect(0x10E2BD000, 0x1000, 0x0) = 0 0
mprotect(0x10E2C9000, 0x1000, 0x0) = 0 0
mprotect(0x10E2AB000, 0xC8, 0x1) = 0 0
mprotect(0x10E2AB000, 0xC8, 0x3) = 0 0
mprotect(0x10E2AB000, 0xC8, 0x1) = 0 0
mprotect(0x10E2CA000, 0x1000, 0x1) = 0 0
mprotect(0x10E2CB000, 0xC8, 0x1) = 0 0
mprotect(0x10E2CB000, 0xC8, 0x3) = 0 0
mprotect(0x10E2CB000, 0xC8, 0x1) = 0 0
mprotect(0x10E2AB000, 0xC8, 0x3) = 0 0
mprotect(0x10E2AB000, 0xC8, 0x1) = 0 0
mprotect(0x10E2CA000, 0x1000, 0x3) = 0 0
mprotect(0x10E2CA000, 0x1000, 0x1) = 0 0
issetugid(0x0, 0x0, 0x0) = 0 0

```

```

getentropy(0x7FF7B1C57560, 0x20, 0x0)          = 0 0
0x7FF7B1C57D00, 0x7FF7B1C57D1C)
getattrlist("/Users/romanmarkin/Documents/OS_labs/lab_2/parallel_merge_sort\0",
access("/Users/romanmarkin/Documents/OS_labs/lab_2\0", 0x4, 0x0)          = 0 0
open("/Users/romanmarkin/Documents/OS_labs/lab_2\0", 0x0, 0x0)          = 3 0
fstat64(0x3, 0x7F8D7FF04470, 0x0)          = 0 0
csrctl(0x0, 0x7FF7B1C57F2C, 0x4)          = -1 1
fgetattrlist(0x3, 0x7FF7B1C57FC0, 0x7FF7B1C57F40)          = 0 0
__mac_syscall(0x7FF8263EA555, 0x2, 0x7FF7B1C57F40)          = 0 0
fcntl(0x3, 0x32, 0x7FF7B1C57C10)          = 0 0
close(0x3)          = 0 0
open("/Users/romanmarkin/Documents/OS_labs/lab_2/Info.plist\0", 0x0, 0x0)          = -1 2
proc_info(0x2, 0x7074, 0xD)          = 64 0
csops_audittoken(0x7074, 0x10, 0x7FF7B1C57F60)          = -1 22
in action #10 at DIF offset 28
dtrace: error on enabled probe ID 1747 (ID 573: syscall::sysctl:return): invalid kernel access
in action #10 at DIF offset 28
dtrace: error on enabled probe ID 1747 (ID 573: syscall::sysctl:return): invalid kernel access
bsdthread_create(0x10E2979D0, 0x7FF7B1C6B748, 0x70000425B000)          = 69578752 0
bsdthread_create(0x10E2979D0, 0x7FF7B1C6B738, 0x7000042DE000)          = 70115328 0
thread_selfid(0x0, 0x0, 0x0)          = 2195640 0
thread_selfid(0x0, 0x0, 0x0)          = 2195641 0
bsdthread_create(0x10E2979D0, 0x70000425AF78, 0x700004361000)          = 70651904 0
bsdthread_create(0x10E2979D0, 0x7000042DDF78, 0x7000043E4000)          = 71188480 0
thread_selfid(0x0, 0x0, 0x0)          = 2195642 0
thread_selfid(0x0, 0x0, 0x0)          = 2195643 0
madvise(0x7F8D80BD2000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D80BE2000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B00000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B10000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B20000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B30000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B30000, 0x10000, 0x9)          = 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1B0A)          = 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)          = -2 0
madvise(0x7F8D82B20000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B10000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B00000, 0x10000, 0x9)          = 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)          = 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)          = 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)          = 0 0

```

madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82C1A000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82C39000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B00000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B10000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B20000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B30000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B10000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B00000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B00000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B10000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B50000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B40000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B30000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82B20000, 0x10000, 0x9)	= 0 0
madvise(0x7F8D82C39000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82C1A000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82C58000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82C96000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82F00000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82F3E000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82F7C000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82FBA000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D85800000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D8583E000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0

madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B60000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B7F000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1802)	= 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)	= -2 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1C06)	= 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)	= -2 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1802)	= 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)	= -2 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1C06)	= 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)	= -2 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D8583E000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D85800000, 0x3E000, 0x9)	= 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)	= 0 0
madvise(0x7F8D82FBA000, 0x3E000, 0x9)	= 0 0


```

madvise(0x7F8D82F7C000, 0x3E000, 0x9)      = 0 0
madvise(0x7F8D82BDC000, 0x1F000, 0x9)      = 0 0
madvise(0x7F8D82BBD000, 0x1F000, 0x9)      = 0 0
madvise(0x7F8D82BFB000, 0x1F000, 0x9)      = 0 0
madvise(0x7F8D82B9E000, 0x1F000, 0x9)      = 0 0
madvise(0x7F8D82F7C000, 0x3E000, 0x9)      = 0 0
madvise(0x7F8D82FBA000, 0x3E000, 0x9)      = 0 0
madvise(0x7F8D85800000, 0x3E000, 0x9)      = 0 0
madvise(0x7F8D8583E000, 0x3E000, 0x9)      = 0 0
madvise(0x7F8D8587C000, 0x7B000, 0x9)      = 0 0
madvise(0x7F8D858F7000, 0x7B000, 0x9)      = 0 0
madvise(0x7F8D85972000, 0x7B000, 0x9)      = 0 0
madvise(0x7F8D859ED000, 0x7B000, 0x9)      = 0 0
__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0
madvise(0x7F8D85A68000, 0x7B000, 0x9)      = 0 0
madvise(0x7F8D85AE3000, 0x7B000, 0x9)      = 0 0
madvise(0x7F8D85B5E000, 0x7B000, 0x9)      = 0 0
ulock_wait2(0x1050002, 0x10E2AF980, 0x1802) = 0 0
ulock_wake(0x1000002, 0x10E2AF980, 0x0)     = -2 0
madvise(0x7F8D85BD9000, 0x7B000, 0x9)      = 0 0
__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0
ulock_wake(0x1000002, 0x7000043E4034, 0x0) = 0 0
ulock_wait(0x1020002, 0x7000043E4034, 0x1803) = 0 0
madvise(0x7F8D85C54000, 0xF5000, 0x9)      = 0 0
madvise(0x7F8D85D49000, 0xF5000, 0x9)      = 0 0
__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0
ulock_wake(0x1000002, 0x70000425B034, 0x0) = 0 0
ulock_wait(0x1020002, 0x70000425B034, 0x1C07) = 0 0
madvise(0x7F8D85E3E000, 0xF5000, 0x9)      = 0 0
madvise(0x7F8D85F33000, 0xF5000, 0x9)      = 0 0
__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0
ulock_wake(0x1000002, 0x7000042DE034, 0x0) = 0 0
ulock_wait(0x1020002, 0x7000042DE034, 0x1B0B) = 0 0
madvise(0x7F8D82B00000, 0x1E9000, 0x9)      = 0 0
madvise(0x7F8D86028000, 0x1E9000, 0x9)      = 0 0
fstat64(0x1, 0x7FF7B1C6B478, 0x0)          = 0 0
ioctl(0x1, 0x4004667A, 0x7FF7B1C6B4C4)     = 0 0

```

kernel dtrace: error on enabled probe ID 1718 (ID 963: syscall::write_nocancel:return): invalid access in action #12 at DIF offset 68

kernel dtrace: error on enabled probe ID 1718 (ID 963: syscall::write_nocancel:return): invalid access in action #12 at DIF offset 68

```

madvise(0x7F8D80800000, 0x3D1000, 0x9)      = 0 0

```

Вывод

В ходе выполнения данной лабораторной работы я получил ценный опыт работы с многопоточностью и синхронизацией в программах на языке C.