Московский Авиационный Институт

(Национальный Исследовательский Университет)

Институт №8 “Компьютерные науки и прикладная математика”

Кафедра №806 “Вычислительная математика и программирование”

**Лабораторная работа №3 по курсу**

**«Операционные системы»**

Группа: М8О-215Б-23

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**Постановка задачи**

**Вариант 19.**

Составить и отладить программу на языке Си, осуществляющую работу с процессами и взаимодействие между ними в одной из двух операционных систем. В результате работы программа (основной процесс) должен создать для решение задачи один или несколько дочерних процессов. Взаимодействие между процессами осуществляется через системные сигналы/события и/или через отображаемые файлы (memory-mapped files). Необходимо обрабатывать системные ошибки, которые могут возникнуть в результате работы.

**Общий метод и алгоритм решения**

Управление процессами:

* pid\_t fork(void) – создает дочерний процесс, который является копией родительского
* int execl(const char \*path, const char \*arg, ...) – заменяет текущий процесс новой программой
* pid\_t waitpid(pid\_t pid, int \*status, int options) – ожидает изменения состояния дочернего процесса

Операции с файлами:

* int open(const char \*pathname, int flags, mode\_t mode) – открывает или создает файл
* int close(int fd) – закрывает файловый дескриптор
* int ftruncate(int fd, off\_t length) – изменяет размер файла
* int unlink(const char \*pathname) – удаляет файл из файловой системы
* FILE\* fopen(const char \*pathname, const char \*mode) – открывает поток для работы с файлом
* int fclose(FILE \*stream) – закрывает поток

Управление памятью:

* void \*mmap(void \*addr, size\_t length, int prot, int flags, int fd, off\_t offset) – отображает файл в память
* int munmap(void \*addr, size\_t length) – удаляет отображение памяти
* int msync(void \*addr, size\_t length, int flags) – синхронизирует память с физическим хранилищем

Операции с семафорами:

* sem\_t \*sem\_open(const char \*name, int oflag, mode\_t mode, unsigned int value) – создает/открывает семафор
* int sem\_close(sem\_t \*sem) – закрывает семафор
* int sem\_wait(sem\_t \*sem) – блокирует семафор (ожидание)
* int sem\_post(sem\_t \*sem) – разблокирует семафор (освобождение)
* int sem\_unlink(const char \*name) – удаляет именованный семафор

Работа со временем:

* usleep(unsigned int usec) – приостанавливает выполнение на заданное количество микросекунд

Информация о файлах:

* int fstat(int fd, struct stat \*statbuf) – получает информацию о состоянии файла

В целом метод решения идейно ничем не отличается от первой лабы. Просто здесь вместо пайпов используются MMF.

1. Вводим названия файлов
2. Подготавливаем файлы для MM и делаем MM
3. Инициализируем семафоры
4. Форкаем процесс для двух детей
5. Принимаем строки и направляем их в детей

Дочерние процессы в свою очередь открывают мапед файлы, а так же файлы для записи. Ну и удаляют гласные

**Код программы**

**parent.cpp**

|  |
| --- |
| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  #include <ctime>  #include <fcntl.h>  #include <unistd.h>  #include <sys/mman.h>  #include <sys/wait.h>  #include <semaphore.h>  #include "common.h"  void prepareFileForMapping(const char\* filename) {  int fd = open(filename, O\_RDWR | O\_CREAT | O\_TRUNC, 0666);  if (fd == -1) {  perror("Error creating mapped file");  exit(1);  }  if (ftruncate(fd, sizeof(struct SharedData)) == -1) {  perror("Error setting file size");  close(fd);  exit(1);  }  close(fd);  }  int main() {  std::srand(std::time(nullptr));  sem\_t \*sem1 = sem\_open(SEM\_NAME1, O\_CREAT | O\_EXCL, 0666, 1);  sem\_t \*sem2 = sem\_open(SEM\_NAME2, O\_CREAT | O\_EXCL, 0666, 1);  if (sem1 == SEM\_FAILED || sem2 == SEM\_FAILED) {  perror("Error creating semaphores");  exit(1);  }  prepareFileForMapping(MAPPED\_FILE1);  prepareFileForMapping(MAPPED\_FILE2);  int fd1 = open(MAPPED\_FILE1, O\_RDWR);  int fd2 = open(MAPPED\_FILE2, O\_RDWR);  if (fd1 == -1 || fd2 == -1) {  perror("Error opening mapped files");  exit(1);  }  struct SharedData\* shared1 = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd1, 0);  struct SharedData\* shared2 = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd2, 0);  if (shared1 == MAP\_FAILED || shared2 == MAP\_FAILED) {  perror("Error mapping files");  exit(1);  }  shared1->size = 0;  shared1->done = 0;  shared2->size = 0;  shared2->done = 0;  char filename1[256], filename2[256];  printf("Enter filename for child1: ");  scanf("%255s", filename1);  printf("Enter filename for child2: ");  scanf("%255s", filename2);  getchar();  pid\_t child1 = fork();  if (child1 == -1) {  perror("Error creating first child");  exit(1);  }  if (child1 == 0) {  execl("./child1", "child1", filename1, NULL);  perror("Error executing child1");  exit(1);  }  pid\_t child2 = fork();  if (child2 == -1) {  perror("Error creating second child");  exit(1);  }  if (child2 == 0) {  execl("./child2", "child2", filename2, NULL);  perror("Error executing child2");  exit(1);  }  printf("Enter lines (Ctrl+D to finish):\n");  char line[MAX\_LINE];  while (fgets(line, MAX\_LINE, stdin) != NULL) {  struct SharedData\* target;  sem\_t\* current\_sem;  double random = static\_cast<double>(std::rand()) / RAND\_MAX;  if (random < PROB\_FILE1) {  target = shared1;  current\_sem = sem1;  } else {  target = shared2;  current\_sem = sem2;  }  sem\_wait(current\_sem);  size\_t len = strlen(line);  strncpy(target->data, line, len);  target->size = len;  msync(target, sizeof(struct SharedData), MS\_SYNC);  sem\_post(current\_sem);  }  shared1->done = 1;  shared2->done = 1;  msync(shared1, sizeof(struct SharedData), MS\_SYNC);  msync(shared2, sizeof(struct SharedData), MS\_SYNC);  waitpid(child1, NULL, 0);  waitpid(child2, NULL, 0);  munmap(shared1, sizeof(struct SharedData));  munmap(shared2, sizeof(struct SharedData));  close(fd1);  close(fd2);  sem\_close(sem1);  sem\_close(sem2);  sem\_unlink(SEM\_NAME1);  sem\_unlink(SEM\_NAME2);  unlink(MAPPED\_FILE1);  unlink(MAPPED\_FILE2);  printf("All processes completed.\n");  return 0;  } |

**child1.cpp & child2.cpp**

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| --- |
| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  #include <ctype.h>  #include <fcntl.h>  #include <unistd.h>  #include <sys/mman.h>  #include <sys/stat.h>  #include <semaphore.h>  #include "common.h"  int isVowel(char c) {  c = tolower(c);  return (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');  }  void removeVowels(char\* str) {  int i, j;  for (i = 0, j = 0; str[i]; i++) {  if (!isVowel(str[i])) {  str[j++] = str[i];  }  }  str[j] = '\0';  }  int main(int argc, char\* argv[]) {  if (argc != 2) {  fprintf(stderr, "Usage: %s <output\_file>\n", argv[0]);  return 1;  }  sem\_t \*sem = sem\_open(SEM\_NAME1, 0);  if (sem == SEM\_FAILED) {  perror("Error opening semaphore");  return 1;  }  int fd = open(MAPPED\_FILE1, O\_RDWR);  if (fd == -1) {  perror("Error opening mapped file");  return 1;  }  struct stat sb;  if (fstat(fd, &sb) == -1) {  perror("Error getting file size");  close(fd);  return 1;  }  struct SharedData\* shared = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd, 0);  if (shared == MAP\_FAILED) {  perror("Error mapping file");  close(fd);  return 1;  }  FILE\* outFile = fopen(argv[1], "w");  if (!outFile) {  perror("Error opening output file");  munmap(shared, sizeof(struct SharedData));  close(fd);  return 1;  }  char buffer[MAX\_LINE];  while (!shared->done || shared->size > 0) {  if (shared->size > 0) {  sem\_wait(sem);  strncpy(buffer, shared->data, shared->size);  buffer[shared->size] = '\0';  removeVowels(buffer);  fprintf(outFile, "%s", buffer);  shared->size = 0;  msync(shared, sizeof(struct SharedData), MS\_SYNC);  } else  {  continue;  }  sem\_post(sem);  }  fclose(outFile);  munmap(shared, sizeof(struct SharedData));  close(fd);  sem\_close(sem);  return 0;  } |

**common.h**

|  |
| --- |
| #ifndef COMMON\_H  #define COMMON\_H  #define MAX\_LINE 1000  #define SHARED\_MEM\_SIZE (MAX\_LINE \* 100)  #define PROB\_FILE1 0.8  #define MAPPED\_FILE1 "/tmp/mapped\_file1"  #define MAPPED\_FILE2 "/tmp/mapped\_file2"  #define SEM\_NAME1 "/mysem1"  #define SEM\_NAME2 "/mysem2"  struct SharedData {  char data[SHARED\_MEM\_SIZE];  size\_t size;  bool done;  };  #endif |

**Протокол работы программы**

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| --- |
| ➜ src git:(main) ✗ g++ -o parent parent.cpp  ➜ src git:(main) ✗ g++ -o child1 child1.cpp  ➜ src git:(main) ✗ g++ -o child2 child2.cpp  ➜ src git:(main) ✗ ./parent  Enter filename for child1: one  Enter filename for child2: two  Enter lines (Ctrl+D to finish):  sdadfkdjskdfjpwddnnvn  dfghjklkjhgfdsdfghyuioiuytrerftghjkjhgf  kjhgfdfghioiuytrdfghjklkjhg  ,mnbvcxcvhjklpoiuytretyuio  All processes completed.  ➜ src git:(main) ✗ cat one  sddfkdjskdfjpwddnnvn  dfghjklkjhgfdsdfghyytrrftghjkjhgf  ➜ src git:(main) ✗ cat two  kjhgfdfghytrdfghjklkjhg  ,mnbvcxcvhjklpytrty |

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| --- |
| **29663 execve("./parent", ["./parent"], 0x7ffd86804068 /\* 32 vars \*/) = 0**  **29663 brk(NULL) = 0x56362b689000**  **29663 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffeb9fa4d60) = -1 EINVAL (Invalid argument)**  **29663 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f707e1a2000**  **29663 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29663 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f707e19c000**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3**  **29663 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29663 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29663 pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29663 pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29663 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29663 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f707df73000**  **29663 mprotect(0x7f707df9b000, 2023424, PROT\_NONE) = 0**  **29663 mmap(0x7f707df9b000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f707df9b000**  **29663 mmap(0x7f707e130000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f707e130000**  **29663 mmap(0x7f707e189000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x215000) = 0x7f707e189000**  **29663 mmap(0x7f707e18f000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f707e18f000**  **29663 close(3) = 0**  **29663 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f707df70000**  **29663 arch\_prctl(ARCH\_SET\_FS, 0x7f707df70740) = 0**  **29663 set\_tid\_address(0x7f707df70a10) = 29663**  **29663 set\_robust\_list(0x7f707df70a20, 24) = 0**  **29663 rseq(0x7f707df710e0, 0x20, 0, 0x53053053) = 0**  **29663 mprotect(0x7f707e189000, 16384, PROT\_READ) = 0**  **29663 mprotect(0x56361f2d0000, 4096, PROT\_READ) = 0**  **29663 mprotect(0x7f707e1dc000, 8192, PROT\_READ) = 0**  **29663 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29663 munmap(0x7f707e19c000, 20627) = 0**  **29663 getrandom("\x07\xd4\xa0\x53\x10\x7c\xa7\xa6", 8, GRND\_NONBLOCK) = 8**  **29663 newfstatat(AT\_FDCWD, "/dev/shm/sem.9hShcK", 0x7ffeb9fa4470, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/dev/shm/sem.9hShcK", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 3**  **29663 write(3, "\1\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32**  **29663 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707e1db000**  **29663 link("/dev/shm/sem.9hShcK", "/dev/shm/sem.mysem1") = 0**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29663 getrandom("\x4f\xb4\x05\xdd\xb8\xc5\xf2\x4b", 8, GRND\_NONBLOCK) = 8**  **29663 brk(NULL) = 0x56362b689000**  **29663 brk(0x56362b6aa000) = 0x56362b6aa000**  **29663 unlink("/dev/shm/sem.9hShcK") = 0**  **29663 close(3) = 0**  **29663 getrandom("\x26\x0f\x56\x99\xe8\x8c\xe8\x3b", 8, GRND\_NONBLOCK) = 8**  **29663 newfstatat(AT\_FDCWD, "/dev/shm/sem.2Ski2i", 0x7ffeb9fa4470, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/dev/shm/sem.2Ski2i", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 3**  **29663 write(3, "\1\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32**  **29663 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707e1a1000**  **29663 link("/dev/shm/sem.2Ski2i", "/dev/shm/sem.mysem2") = 0**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29663 unlink("/dev/shm/sem.2Ski2i") = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 3**  **29663 ftruncate(3, 100016) = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file2", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 3**  **29663 ftruncate(3, 100016) = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR) = 3**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file2", O\_RDWR) = 4**  **29663 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707df57000**  **29663 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7f707df3e000**  **29663 newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x3), ...}, AT\_EMPTY\_PATH) = 0**  **29663 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x3), ...}, AT\_EMPTY\_PATH) = 0**  **29663 write(1, "Enter filename for child1: ", 27) = 27**  **29663 read(0, "aboba\n", 1024) = 6**  **29663 write(1, "Enter filename for child2: ", 27) = 27**  **29663 read(0, "abiba\n", 1024) = 6**  **29663 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f707df70a10) = 29668**  **29668 set\_robust\_list(0x7f707df70a20, 24 <unfinished ...>**  **29663 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD <unfinished ...>**  **29668 <... set\_robust\_list resumed>) = 0**  **29668 execve("./child1", ["child1", "aboba"], 0x7ffeb9fa4f38 /\* 32 vars \*/ <unfinished ...>**  **29663 <... clone resumed>, child\_tidptr=0x7f707df70a10) = 29669**  **29669 set\_robust\_list(0x7f707df70a20, 24 <unfinished ...>**  **29663 write(1, "Enter lines (Ctrl+D to finish):\n", 32 <unfinished ...>**  **29669 <... set\_robust\_list resumed>) = 0**  **29663 <... write resumed>) = 32**  **29669 execve("./child2", ["child2", "abiba"], 0x7ffeb9fa4f38 /\* 32 vars \*/ <unfinished ...>**  **29663 read(0, <unfinished ...>**  **29668 <... execve resumed>) = 0**  **29668 brk(NULL) = 0x563d749b0000**  **29669 <... execve resumed>) = 0**  **29669 brk(NULL <unfinished ...>**  **29668 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffc44aa0ca0 <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fd91000**  **29668 <... arch\_prctl resumed>) = -1 EINVAL (Invalid argument)**  **29669 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fffbda76c40 <unfinished ...>**  **29668 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... arch\_prctl resumed>) = -1 EINVAL (Invalid argument)**  **29668 <... mmap resumed>) = 0x7f3cfb8dd000**  **29669 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 access("/etc/ld.so.preload", R\_OK <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb2f000**  **29668 <... access resumed>) = -1 ENOENT (No such file or directory)**  **29669 access("/etc/ld.so.preload", R\_OK <unfinished ...>**  **29668 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29669 <... access resumed>) = -1 ENOENT (No such file or directory)**  **29668 <... openat resumed>) = 5**  **29669 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 5, 0 <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... mmap resumed>) = 0x7f3cfb8d7000**  **29669 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 5, 0 <unfinished ...>**  **29668 close(5 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb29000**  **29668 <... close resumed>) = 0**  **29669 close(5 <unfinished ...>**  **29668 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29669 <... close resumed>) = 0**  **29668 <... openat resumed>) = 5**  **29669 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29668 read(5, <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29669 read(5, <unfinished ...>**  **29668 <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29669 <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29668 pread64(5, <unfinished ...>**  **29669 pread64(5, <unfinished ...>**  **29668 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29669 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29668 pread64(5, <unfinished ...>**  **29669 pread64(5, <unfinished ...>**  **29668 <... pread64 resumed>"\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29669 <... pread64 resumed>"\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29669 pread64(5, <unfinished ...>**  **29668 pread64(5, <unfinished ...>**  **29669 <... pread64 resumed>"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29668 <... pread64 resumed>"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29669 pread64(5, <unfinished ...>**  **29668 pread64(5, <unfinished ...>**  **29669 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29668 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29669 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 5, 0 <unfinished ...>**  **29668 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 5, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b900000**  **29668 <... mmap resumed>) = 0x7f3cfb6ae000**  **29669 mprotect(0x7f8f3b928000, 2023424, PROT\_NONE <unfinished ...>**  **29668 mprotect(0x7f3cfb6d6000, 2023424, PROT\_NONE <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mmap(0x7f8f3b928000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x28000 <unfinished ...>**  **29668 mmap(0x7f3cfb6d6000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x28000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b928000**  **29668 <... mmap resumed>) = 0x7f3cfb6d6000**  **29669 mmap(0x7f8f3babd000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x1bd000 <unfinished ...>**  **29668 mmap(0x7f3cfb86b000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x1bd000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3babd000**  **29668 <... mmap resumed>) = 0x7f3cfb86b000**  **29669 mmap(0x7f8f3bb16000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x215000 <unfinished ...>**  **29668 mmap(0x7f3cfb8c4000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x215000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb16000**  **29668 <... mmap resumed>) = 0x7f3cfb8c4000**  **29669 mmap(0x7f8f3bb1c000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 mmap(0x7f3cfb8ca000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb1c000**  **29668 <... mmap resumed>) = 0x7f3cfb8ca000**  **29669 close(5 <unfinished ...>**  **29668 close(5 <unfinished ...>**  **29669 <... close resumed>) = 0**  **29668 <... close resumed>) = 0**  **29669 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b8fd000**  **29668 <... mmap resumed>) = 0x7f3cfb6ab000**  **29669 arch\_prctl(ARCH\_SET\_FS, 0x7f8f3b8fd740 <unfinished ...>**  **29668 arch\_prctl(ARCH\_SET\_FS, 0x7f3cfb6ab740 <unfinished ...>**  **29669 <... arch\_prctl resumed>) = 0**  **29668 <... arch\_prctl resumed>) = 0**  **29669 set\_tid\_address(0x7f8f3b8fda10 <unfinished ...>**  **29668 set\_tid\_address(0x7f3cfb6aba10 <unfinished ...>**  **29669 <... set\_tid\_address resumed>) = 29669**  **29668 <... set\_tid\_address resumed>) = 29668**  **29669 set\_robust\_list(0x7f8f3b8fda20, 24 <unfinished ...>**  **29668 set\_robust\_list(0x7f3cfb6aba20, 24 <unfinished ...>**  **29669 <... set\_robust\_list resumed>) = 0**  **29668 <... set\_robust\_list resumed>) = 0**  **29669 rseq(0x7f8f3b8fe0e0, 0x20, 0, 0x53053053 <unfinished ...>**  **29668 rseq(0x7f3cfb6ac0e0, 0x20, 0, 0x53053053 <unfinished ...>**  **29669 <... rseq resumed>) = 0**  **29668 <... rseq resumed>) = 0**  **29669 mprotect(0x7f8f3bb16000, 16384, PROT\_READ <unfinished ...>**  **29668 mprotect(0x7f3cfb8c4000, 16384, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mprotect(0x55cd47753000, 4096, PROT\_READ <unfinished ...>**  **29668 mprotect(0x563d6e501000, 4096, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mprotect(0x7f8f3bb69000, 8192, PROT\_READ <unfinished ...>**  **29668 mprotect(0x7f3cfb917000, 8192, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>**  **29668 prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>**  **29669 <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29668 <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29669 munmap(0x7f8f3bb29000, 20627 <unfinished ...>**  **29668 munmap(0x7f3cfb8d7000, 20627 <unfinished ...>**  **29669 <... munmap resumed>) = 0**  **29668 <... munmap resumed>) = 0**  **29669 openat(AT\_FDCWD, "/dev/shm/sem.mysem1", O\_RDWR|O\_NOFOLLOW <unfinished ...>**  **29668 openat(AT\_FDCWD, "/dev/shm/sem.mysem1", O\_RDWR|O\_NOFOLLOW <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29668 <... openat resumed>) = 5**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29669 getrandom( <unfinished ...>**  **29668 getrandom( <unfinished ...>**  **29669 <... getrandom resumed>"\xf2\x52\xa1\xfe\x1b\x8b\xe4\x0a", 8, GRND\_NONBLOCK) = 8**  **29668 <... getrandom resumed>"\x00\x79\x19\x85\xf3\x6a\xd7\x6e", 8, GRND\_NONBLOCK) = 8**  **29669 brk(NULL <unfinished ...>**  **29668 brk(NULL <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fd91000**  **29668 <... brk resumed>) = 0x563d749b0000**  **29669 brk(0x55cd6fdb2000 <unfinished ...>**  **29668 brk(0x563d749d1000 <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fdb2000**  **29668 <... brk resumed>) = 0x563d749d1000**  **29669 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0 <unfinished ...>**  **29668 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb68000**  **29669 close(5 <unfinished ...>**  **29668 <... mmap resumed>) = 0x7f3cfb916000**  **29669 <... close resumed>) = 0**  **29668 close(5 <unfinished ...>**  **29669 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR <unfinished ...>**  **29668 <... close resumed>) = 0**  **29669 <... openat resumed>) = 5**  **29668 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR <unfinished ...>**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 <... openat resumed>) = 5**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=100016, ...}, AT\_EMPTY\_PATH) = 0**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f8f3b8e4000**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=100016, ...}, AT\_EMPTY\_PATH) = 0**  **29669 openat(AT\_FDCWD, "abiba", O\_WRONLY|O\_CREAT|O\_TRUNC, 0666 <unfinished ...>**  **29668 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f3cfb692000**  **29669 <... openat resumed>) = 6**  **29668 openat(AT\_FDCWD, "aboba", O\_WRONLY|O\_CREAT|O\_TRUNC, 0666 <unfinished ...>**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... openat resumed>) = 6**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, 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<... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"abababaababqa\n", 1024) = 14**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 newfstatat(6, "", {st\_mode=S\_IFREG|0644, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0**  **29668 msync(0x7f3cfb692000, 100016, MS\_SYNC) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, 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clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"okokokook\n", 1024) = 10**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 newfstatat(6, "", {st\_mode=S\_IFREG|0644, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0**  **29669 msync(0x7f8f3b8e4000, 100016, MS\_SYNC) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"ihihihhi\n", 1024) = 9**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 msync(0x7f8f3b8e4000, 100016, MS\_SYNC) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"", 1024) = 0**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 msync(0x7f707df3e000, 100016, MS\_SYNC) = 0**  **29663 wait4(29668, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 write(6, "kkkk\nhhhh\n", 10) = 10**  **29669 close(6) = 0**  **29669 munmap(0x7f8f3b8e4000, 100016) = 0**  **29669 close(5) = 0**  **29669 munmap(0x7f8f3bb68000, 32) = 0**  **29669 exit\_group(0) = ?**  **29669 +++ exited with 0 +++**  **29663 <... wait4 resumed>NULL, 0, NULL) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)**  **29663 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=29669, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=2} ---**  **29663 wait4(29668, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 write(6, "bbbbbq\n", 7) = 7**  **29668 close(6) = 0**  **29668 munmap(0x7f3cfb692000, 100016) = 0**  **29668 close(5) = 0**  **29668 munmap(0x7f3cfb916000, 32) = 0**  **29668 exit\_group(0) = ?**  **29668 +++ exited with 0 +++**  **29663 <... wait4 resumed>NULL, 0, NULL) = 29668**  **29663 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=29668, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=2} ---**  **29663 wait4(29669, NULL, 0, NULL) = 29669**  **29663 munmap(0x7f707df57000, 100016) = 0**  **29663 munmap(0x7f707df3e000, 100016) = 0**  **29663 close(3) = 0**  **29663 close(4) = 0**  **29663 munmap(0x7f707e1db000, 32) = 0**  **29663 munmap(0x7f707e1a1000, 32) = 0**  **29663 unlink("/dev/shm/sem.mysem1") = 0**  **29663 unlink("/dev/shm/sem.mysem2") = 0**  **29663 unlink("/tmp/mapped\_file1") = 0**  **29663 unlink("/tmp/mapped\_file2") = 0**  **29663 write(1, "All processes completed.\n", 25) = 25**  **29663 exit\_group(0) = ?**  **29663 +++ exited with 0 +++** |

**Вывод**

Интересно было взаимодействовать с MMF файлами, как с альтернативным подходом к решению задачи в первой лабораторной работоты.