Brandon Fowler

Program statistics

The size of the program is 11,511 bytes. While executing the program occupies 360,000 bytes, and a total 4,192,000 bytes with libs. According to the UNIX size tool, the code section is 2204 bytes and the data is 608 bytes.

Output from simultaneous run

```
Executing lab3prob1, process id 3752, iteration number 1
Executing lab3prob1, process id 3751, iteration number 1
Executing lab3prob1, process id 3753, iteration number 1
Executing lab3prob1, process id 3752, iteration number 2
Executing lab3prob1, process id 3751, iteration number 2
Executing lab3prob1, process id 3753, iteration number 2
Executing lab3prob1, process id 3752, iteration number 3
Executing lab3prob1, process id 3751, iteration number 3
Executing lab3prob1, process id 3753, iteration number 3
Executing lab3prob1, process id 3751, iteration number 4
Executing lab3prob1, process id 3753, iteration number 4
Executing lab3prob1, process id 3752, iteration number 4
Executing lab3prob1, process id 3752, iteration number 5
Executing lab3prob1, process id 3751, iteration number 5
Executing lab3prob1, process id 3753, iteration number 5
Executing lab3prob1, process id 3751, iteration number 6
Executing lab3prob1, process id 3752, iteration number 6
Executing lab3prob1, process id 3753, iteration number 6
Executing lab3prob1, process id 3752, iteration number 7
Executing lab3prob1, process id 3753, iteration number 7
Executing lab3prob1, process id 3751, iteration number 7
Executing lab3prob1, process id 3752, iteration number 8
Executing lab3prob1, process id 3753, iteration number 8
Executing lab3prob1, process id 3751, iteration number 8
Executing lab3prob1, process id 3753, iteration number 9
Executing lab3prob1, process id 3751, iteration number 9
Executing lab3prob1, process id 3752, iteration number 9
Executing lab3prob1, process id 3751, iteration number 10
Executing lab3prob1, process id 3752, iteration number 10
Executing lab3prob1, process id 3753, iteration number 10
lab3prob1 is now exiting
lab3prob1 is now exiting
lab3prob1 is now exiting
```

Straces from simultaneous runs

```
= -1 ENOENT (No such file or directory)
access("/etc/ld.so.nohwcap", F_OK)
open("/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=1845024, ...}) = 0
mmap(NULL, 3953344, PROT READ|PROT EXEC, MAP PRIVATE|MAP DENYWRITE, 3, 0) =
0x7f1b74c3e000
mprotect(0x7f1b74df9000, 2097152, PROT_NONE) = 0
mmap(0x7f1b74ff9000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP DENYWRITE, 3, 0x1bb000) = 0x7f1b74ff9000
mmap(0x7f1b74fff000, 17088, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP ANONYMOUS, -1, 0) = 0x7f1b74fff000
                        = 0
close(3)
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1b7520d000
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1b7520b000
arch_prctl(ARCH_SET_FS, 0x7f1b7520b740) = 0
mprotect(0x7f1b74ff9000, 16384, PROT_READ) = 0
mprotect(0x600000, 4096, PROT_READ)
mprotect(0x7f1b75226000, 4096, PROT_READ) = 0
munmap(0x7f1b7520e000, 90022)
                        = 3752
getpid()
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep({4, 0}, 0x7fff6f3af740)
                                 = 0
```

```
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep({4, 0}, 0x7fff6f3af740)
write(2, "Executing lab3prob1, process id "..., 58) = 58
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff6f3af740)
fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 2), ...}) = 0
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1b75223000
write(1, "lab3prob1 is now exiting\n", 25) = 25
exit_group(0)
+++ exited with 0 +++
% time
                            calls errors syscall
        seconds usecs/call
                     32
                            10
35.63 0.000320
                                    nanosleep
30.62 0.000275
                     25
                           11
                                    write
14.14 0.000127
                     6
                           20
                                   rt sigprocmask
                     7
 7.24
      0.000065
                           10
                                   rt_sigaction
                     5
 4.68
       0.000042
                           8
                                  mmap
 1.67
       0.000015
                     5
                           3
                                  fstat
                     4
                           4
 1.67
       0.000015
                                  mprotect
                           2
                     5
 1.11
      0.000010
                                  open
                     3
                           3
                                 3 access
 1.11
       0.000010
                     7
 0.78
      0.000007
                           1
                                  munmap
                     2
 0.33
      0.000003
                           2
                                  close
 0.22
                     2
                           1
      0.000002
                                  read
                     2
 0.22
                           1
                                  brk
      0.000002
                     2
                           1
 0.22 0.000002
                                  execve
                     2
 0.22
      0.000002
                           1
                                  arch_prctl
 0.11
       0.000001
                     1
                           1
                                  getpid
                           79
100.00 0.000898
                                  3 total
2.
execve("./lab3prob1", ["./lab3prob1", "4", "10"], [/* 63 vars */]) = 0
                        = 0x18dc000
access("/etc/ld.so.nohwcap", F_OK)
                                   = -1 ENOENT (No such file or directory)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fd32eea2000
access("/etc/ld.so.preload", R_OK)
                                 = -1 ENOENT (No such file or directory)
open("/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0644, st_size=90022, ...}) = 0
mmap(NULL, 90022, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7fd32ee8c000
close(3)
access("/etc/ld.so.nohwcap", F_OK)
                                 = -1 ENOENT (No such file or directory)
open("/lib/x86 64-linux-gnu/libc.so.6", O RDONLY|O CLOEXEC) = 3
```

```
fstat(3, {st_mode=S_IFREG|0755, st_size=1845024, ...}) = 0
mmap(NULL, 3953344, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x7fd32e8bc000
mprotect(0x7fd32ea77000, 2097152, PROT NONE) = 0
mmap(0x7fd32ec77000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP DENYWRITE, 3, 0x1bb000) = 0x7fd32ec77000
mmap(0x7fd32ec7d000, 17088, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP_ANONYMOUS, -1, 0) = 0x7fd32ec7d000
close(3)
                         = 0
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fd32ee8b000
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fd32ee89000
arch prctl(ARCH SET FS, 0x7fd32ee89740) = 0
mprotect(0x7fd32ec77000, 16384, PROT_READ) = 0
mprotect(0x600000, 4096, PROT_READ)
mprotect(0x7fd32eea4000, 4096, PROT_READ) = 0
munmap(0x7fd32ee8c000, 90022)
                                     = 0
                         = 3751
getpid()
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
```

```
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep({4, 0}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
write(2, "Executing lab3prob1, process id "..., 58) = 58
rt sigprocmask(SIG BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff308fab70)
fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 2), ...}) = 0
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fd32eea1000
write(1, "lab3prob1 is now exiting\n'', 25) = 25
exit_group(0)
+++ exited with 0 +++
% time
         seconds usecs/call
                            calls errors syscall
                             10
33.47 0.000328
                      33
                                     nanosleep
                      26
29.18
       0.000286
                            11
                                     write
                            20
16.63
       0.000163
                      8
                                    rt_sigprocmask
 9.69
                            10
       0.000095
                     10
                                    rt_sigaction
 4.80
       0.000047
                      6
                            8
                                   mmap
                      7
                            3
 2.04
       0.000020
                                   fstat
 1.73
       0.000017
                      4
                            4
                                   mprotect
                            2
 0.71
       0.000007
                      4
                                   open
 0.61
       0.000006
                      6
                            1
                                   munmap
                      2
                            3
 0.61
       0.000006
                                  3 access
                      2
 0.20
                            1
      0.000002
                                   brk
 0.10
       0.000001
                      1
                            1
                                   read
                            2
 0.10 0.000001
                      1
                                   close
 0.10 0.000001
                      1
                            1
                                   execve
 0.00 0.000000
                      0
                            1
                                   getpid
 0.00 0.000000
                      0
                            1
                                   arch_prctl
100.00 0.000980
                            79
                                   3 total
<u>3.</u>
execve("./lab3prob1", ["./lab3prob1", "4", "10"], [/* 63 vars */]) = 0
                         = 0x2359000
access("/etc/ld.so.nohwcap", F OK)
                                    = -1 ENOENT (No such file or directory)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f7c876c3000
access("/etc/ld.so.preload", R_OK)
                                  = -1 ENOENT (No such file or directory)
open("/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0644, st_size=90022, ...}) = 0
mmap(NULL, 90022, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f7c876ad000
close(3)
access("/etc/ld.so.nohwcap", F_OK)
                                  = -1 ENOENT (No such file or directory)
open("/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "177ELF\2\1\1\0\0\0\0\0\0\0\0\0\0\0\0\0\0\300\37\2\0\0\0\0\0\"..., 832) = 832
fstat(3, {st_mode=S_IFREG|0755, st_size=1845024, ...}) = 0
mmap(NULL, 3953344, PROT READ|PROT EXEC, MAP PRIVATE|MAP DENYWRITE, 3, 0) =
0x7f7c870dd000
```

```
mprotect(0x7f7c87298000, 2097152, PROT NONE) = 0
mmap(0x7f7c87498000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP_DENYWRITE, 3, 0x1bb000) = 0x7f7c87498000
mmap(0x7f7c8749e000, 17088, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|
MAP ANONYMOUS, -1, 0) = 0x7f7c8749e000
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f7c876ac000
mmap(NULL, 8192, PROT READ|PROT WRITE, MAP PRIVATE|MAP ANONYMOUS, -1, 0) =
0x7f7c876aa000
arch prctl(ARCH SET FS, 0x7f7c876aa740) = 0
mprotect(0x7f7c87498000, 16384, PROT_READ) = 0
mprotect(0x600000, 4096, PROT_READ) = 0
mprotect(0x7f7c876c5000, 4096, PROT READ) = 0
munmap(0x7f7c876ad000, 90022)
                         = 3753
getpid()
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt\_sigprocmask(SIG\_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt sigaction(SIGCHLD, NULL, {SIG DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt sigprocmask(SIG SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt sigaction(SIGCHLD, NULL, {SIG DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
rt\_sigprocmask(SIG\_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 57) = 57
```

```
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
write(2, "Executing lab3prob1, process id "..., 58) = 58
rt_sigprocmask(SIG_BLOCK, [CHLD], [], 8) = 0
rt_sigaction(SIGCHLD, NULL, {SIG_DFL, [], 0}, 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
nanosleep(\{4, 0\}, 0x7fff49e5ec10)
fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 2), ...}) = 0
mmap(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f7c876c2000
write(1, "lab3prob1 is now exiting\n", 25) = 25
exit_group(0)
+++ exited with 0 +++
% time
         seconds usecs/call
                             calls
                                    errors syscall
36.03 0.000339
                      34
                             10
                                     nanosleep
30.82
                      26
                             11
       0.000290
                                     write
15.41
                      7
                            20
       0.000145
                                     rt_sigprocmask
                      7
 7.23
       0.000068
                            10
                                    rt_sigaction
 4.14
       0.000039
                      5
                            8
                                    mmap
                      4
                            4
 1.70
       0.000016
                                    mprotect
                      4
                            3
 1.38
       0.000013
                                    fstat
                            2
                      5
 0.96
       0.000009
                                    open
                      3
                            3
 0.96
       0.000009
                                   3 access
                      7
                            1
 0.74
       0.000007
                                    munmap
 0.32
                      3
                            1
       0.000003
                                    execve
 0.11
       0.000001
                      1
                            1
                                    read
                            2
 0.11
       0.000001
                      1
                                    close
 0.11
       0.000001
                      1
                            1
                                    brk
 0.00
       0.000000
                      0
                            1
                                    getpid
 0.00
       0.000000
                      0
                            1
                                    arch_prctl
```

100.00 0.000941

79

3 total