

perf trace

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? ( ): example_extern/25315 ... [continued]: execve())
0.021 ( 0.003 ms): example_extern/25315 brk()
0.092 ( 0.006 ms): example_extern/25315 faccessat(dfd: -100, filename: 0x9ffdb660, mode: 4)
0.171 ( 0.005 ms): example_extern/25315 openat(dfd: CWD, filename: 0x9ffd9480, flags: RDONLY|CLOEXEC)
0.192 ( 0.003 ms): example_extern/25315 close(fd: 3)
0.202 ( 0.005 ms): example_extern/25315 openat(dfd: CWD, filename: 0x9ffeb140, flags: RDONLY|CLOEXEC)
0.210 ( 0.004 ms): example_extern/25315 read(fd: 3, buf: 0xffffd59feaa0, count: 832)
0.239 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9fd6b000, len: 20480)
0.245 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9ff9a000, len: 43040)
0.251 ( 0.006 ms): example_extern/25315 mprotect(start: 0xffff9ff7a000, len: 61440)
0.279 ( 0.003 ms): example_extern/25315 close(fd: 3)
0.288 ( 0.004 ms): example_extern/25315 openat(dfd: CWD, filename: 0x9ffeb680, flags: RDONLY|CLOEXEC)
0.294 ( 0.004 ms): example_extern/25315 read(fd: 3, buf: 0xffffd59fea80, count: 832)
0.320 ( 0.009 ms): example_extern/25315 munmap(addr: 0xffff9fd3b000, len: 20480)
0.332 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9fd65000, len: 41672)
0.338 ( 0.009 ms): example_extern/25315 mprotect(start: 0xffff9fd54000, len: 61440)
0.361 ( 0.003 ms): example_extern/25315 close(fd: 3)
0.367 ( 0.004 ms): example_extern/25315 openat(dfd: CWD, filename: 0x9ffebbc0, flags: RDONLY|CLOEXEC)
0.374 ( 0.003 ms): example_extern/25315 read(fd: 3, buf: 0xffffd59fea60, count: 832)
0.402 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9fb87000, len: 36864)
0.407 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9fd39000, len: 28264)
0.413 ( 0.005 ms): example_extern/25315 mprotect(start: 0xffff9fd18000, len: 61440)
0.490 ( 0.006 ms): example_extern/25315 close(fd: 3)
0.521 ( 0.009 ms): example_extern/25315 openat(dfd: CWD, filename: 0x9ffec100, flags: RDONLY|CLOEXEC)
0.541 ( 0.003 ms): example_extern/25315 read(fd: 3, buf: 0xffffd59fea20, count: 832)
0.576 ( 0.004 ms): example_extern/25315 munmap(addr: 0xffff9fae9000, len: 28672)
0.590 ( 0.003 ms): example_extern/25315 munmap(addr: 0xffff9fb87000, len: 32880)
0.602 ( 0.011 ms): example_extern/25315 mprotect(start: 0xffff9fb76000, len: 61440)
0.666 ( 0.003 ms): example_extern/25315 close(fd: 3)
0.697 ( 0.005 ms): example_extern/25315 set_tid_address(tidptr: 0xffff9ffe9af0)
0.710 ( 0.003 ms): example_extern/25315 set_robust_list(head: 0xffff9ffe9b00, len: 24)
0.727 ( 0.003 ms): example_extern/25315 rseq(rseq: 0xffff9ffealc0, rseq_len: 32, sig: 3559439360)
0.781 ( 0.005 ms): example_extern/25315 mprotect(start: 0xffff9fd27000, len: 16384, prot: READ)
0.791 ( 0.004 ms): example_extern/25315 mprotect(start: 0xffff9fb85000, len: 4096, prot: READ)
0.799 ( 0.004 ms): example_extern/25315 mprotect(start: 0xffff9fd63000, len: 4096, prot: READ)
1.794 ( 0.023 ms): example_extern/25315 mprotect(start: 0xffff9ff89000, len: 45056, prot: READ)
1.874 ( 0.012 ms): example_extern/25315 mprotect(start: 0xaaaaae426000, len: 4096, prot: READ)
1.897 ( 0.012 ms): example_extern/25315 mprotect(start: 0xffff9fff0000, len: 8192, prot: READ)
1.953 ( 0.003 ms): example_extern/25315 prlimit64(resource: STACK, old_rlim: 0xffffd59ff4b8)
1.983 ( 0.013 ms): example_extern/25315 munmap(addr: 0xffff9ffa5000, len: 67899)
2.053 ( 0.009 ms): example_extern/25315 getrandom(ubuf: 0xffff9fd31930, len: 8, flags: NONBLOCK)
2.071 ( 0.003 ms): example_extern/25315 brk()
2.083 ( 0.009 ms): example_extern/25315 brk(brk: 0xaaaaeb324000)
2.321 ( 0.004 ms): example_extern/25315 futex(uaddr: 0xffff9ff977a4, op: WAKE|PRIVATE_FLAG, val: 2147483647)
2.489 ( 0.003 ms): example_extern/25315 rt_sigaction(sig: 0x21, act: 0xffffd59ff478, sigsetsize: 8)
2.495 ( 0.003 ms): example_extern/25315 rt_sigprocmask(how: UNBLOCK, nset: 0xffffd59ff6a8, sigsetsize: 8)
2.507 ( 0.004 ms): example_extern/25315 mprotect(start: 0xffff9f2f0000, len: 8388608, prot: READ|WRITE)
2.525 ( 0.004 ms): example_extern/25315 rt_sigprocmask(how: BLOCK, nset: 0xffff9fcd82c8, oset: 0xffffd59ff6a0, sigsetsize: 8) = 0
2.544 ( 0.096 ms): example_extern/25315 clone(clone_flags: VM|FS|FILES|SIGHAND|THREAD|SYSVSEM|SETTLS|PARENT_SETTID|CHILD_CLEARID, newsp: 0xffff9faee940, parent_tidptr: 0xffff9faef1d0, tls: 0xffff9faef8c0, child_tidptr: 0xffff9faef8c0) = 0
2.647 ( 0.003 ms): example_extern/25315 rt_sigprocmask(how: SETMASK, nset: 0xffffd59ff6a0, sigsetsize: 8) = 0
2.676 ( ): example_extern/25315 futex(uaddr: 0xffff9faef1d0, op: WAIT_BITSET|CLOCK_REALTIME, val: 25316, val3: MATCH_ANY) ...
2.689 ( 0.005 ms): example_extern/25316 rseq(rseq: 0xffff9faef8a0, rseq_len: 32, sig: 3559439360) = 0
2.702 ( 0.003 ms): example_extern/25316 set_robust_list(head: 0xffff9faef1e0, len: 24) = 0
2.713 ( 0.006 ms): example_extern/25316 rt_sigprocmask(how: SETMASK, nset: 0xffff9faef7f0, sigsetsize: 8) = 0
2.728 ( 0.006 ms): example_extern/25316 sched_get_priority_max(policy: 1) = 99
2.742 ( 0.008 ms): example_extern/25316 sched_setscheduler(pid: 25316 (example_externa), policy: FIFO, param: 0xffff9faee6c0) = 0
2.772 ( 0.004 ms): example_extern/25316 munmap(addr: 0xffff972e0000, len: 13762560) = 0
2.779 ( 0.003 ms): example_extern/25316 munmap(addr: 0xffff9c000000, len: 53346304) = 0
2.785 ( 0.003 ms): example_extern/25316 mprotect(start: 0xffff98000000, len: 135168, prot: READ|WRITE) = 0
2.808 ( 0.003 ms): example_extern/25316 sched_get_priority_min(policy: 1) = 1
2.814 ( 0.004 ms): example_extern/25316 sched_setscheduler(pid: 25316 (example_externa), policy: FIFO, param: 0xffff9faee6c0) = 0
2.823 ( 0.003 ms): example_extern/25316 rt_sigprocmask(how: BLOCK, nset: 0xffff9faef7f0, sigsetsize: 8) = 0
2.829 ( 0.005 ms): example_extern/25316 madvise(start: 0xffff9f2e0000, len_in: 8314880, behavior: MADV_DONTNEED) = 0
2.837 ( ): example_extern/25316 exit() = ?
2.676 ( 0.177 ms): example_extern/25315 ... [continued]: futex() = 0
2.937 ( ): example_extern/25315 exit_group() = ?
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strace

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execve("./example_external", ["./example_external"], 0xffffffff35bb480 /* 17 vars */) = 0
brk(NULL)
      = 0xaaaa04d8000
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffaed86000
faccessat(AT_FDCWD, "/etc/ld.so.preload", R_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=67899, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 67899, PROT_READ, MAP_PRIVATE, 3, 0) = 0xfffffaed40000
close(3)
      = 0
openat(AT_FDCWD, "/lib/aarch64-linux-gnu/libstdc++.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0\267\0\1\0\0\0\0\0\0\0\0\0\0"... , 832) = 832
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=2190752, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 2332704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffaeb06000
mmap(0xfffffaeb10000, 2267168, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0) = 0xfffffaeb10000
munmap(0xfffffaeb06000, 40960)
      = 0
munmap(0xfffffaed3a000, 22560)
      = 0
mprotect(0xfffffaed1a000, 61440, PROT_NONE) = 0
mmap(0xfffffaed29000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x209000) = 0xfffffaed29000
mmap(0xfffffaed37000, 10272, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xfffffaed37000
close(3)
      = 0
openat(AT_FDCWD, "/lib/aarch64-linux-gnu/libgcc_s.so.1", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0\267\0\1\0\0\0\0\0\0\0\0\0\0"... , 832) = 832
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=84296, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 213704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffaeadb000
mmap(0xfffffaeae0000, 148168, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0) = 0xfffffaeae0000
munmap(0xfffffaeadb000, 20480)
      = 0
munmap(0xfffffaeb05000, 41672)
      = 0
mprotect(0xfffffaeaf4000, 61440, PROT_NONE) = 0
mmap(0xfffffaeb03000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13000) = 0xfffffaeb03000
close(3)
      = 0
openat(AT_FDCWD, "/lib/aarch64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0\267\0\1\0\0\0\0\0\0\0\0\0\0"... , 832) = 832
newfstatat(3, "", {st_mode=S_IFREG|0755, st_size=1637400, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 1805928, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffae927000
mmap(0xfffffae930000, 1740392, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0) = 0xfffffae930000
munmap(0xfffffae927000, 36864)
      = 0
munmap(0xfffffaead9000, 28264)
      = 0
mprotect(0xfffffaeab8000, 61440, PROT_NONE) = 0
mmap(0xfffffaeac7000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x187000) = 0xfffffaeac7000
mmap(0xfffffaeacd000, 48744, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xfffffaeacd000
close(3)
      = 0
openat(AT_FDCWD, "/lib/aarch64-linux-gnu/libm.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0\267\0\1\0\0\0\0\0\0\0\0\0\0"... , 832) = 832
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=551064, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 680048, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffae889000
mmap(0xfffffae890000, 614512, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0) = 0xfffffae890000
munmap(0xfffffae889000, 28672)
      = 0
munmap(0xfffffae927000, 32880)
      = 0
mprotect(0xfffffae916000, 61440, PROT_NONE) = 0
mmap(0xfffffae925000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x85000) = 0xfffffae925000
close(3)
      = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffaed84000
set_tid_address(0xfffffaed84af0)
      = 25322
set_robust_list(0xfffffaed84b00, 24)
      = 0
rseq(0xfffffaed851c0, 0x20, 0, 0xd428bc00) = 0
mprotect(0xfffffaeac7000, 16384, PROT_READ) = 0
mprotect(0xfffffae925000, 4096, PROT_READ) = 0
mprotect(0xfffffaeb03000, 4096, PROT_READ) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xfffffaed82000
mprotect(0xfffffaed29000, 45056, PROT_READ) = 0
mprotect(0xaaaaac3096000, 4096, PROT_READ) = 0
mprotect(0xfffffaed8b000, 8192, PROT_READ) = 0
prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0
munmap(0xfffffaed40000, 67899)
      = 0
getrandom("\x58\x27\x16\xb8\xfd\xe5\x40\x03", 8, GRND_NONBLOCK) = 8
brk(NULL)
      = 0xaaaa04d8000
brk(0xaaaaad04f9000)
      = 0xaaaaad04f9000
futex(0xfffffaed377a4, FUTEX_WAKE_PRIVATE, 2147483647) = 0
rt_sigaction(SIGRT_1, {sa_handler=0xfffffae9aa700, sa_mask=[], sa_flags=SA_ONSTACK|SA_RESTART|SA_SIGINFO}, NULL, 8) = 0
rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], NULL, 8) = 0
mmap(NULL, 8454144, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) = 0xfffffae080000
mprotect(0xfffffae090000, 8388608, PROT_READ|PROT_WRITE) = 0
rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0
clone(child_stack=0xfffffae88e940, flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARPID, parent_tid=[25323], tls=0xfffffae88f8c0, child_tidptr=0xfffffae88f1d0) = 25323
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
exit_group(0)
      = ?
```