

SISTEMAS OPERATIVOS 2018-2

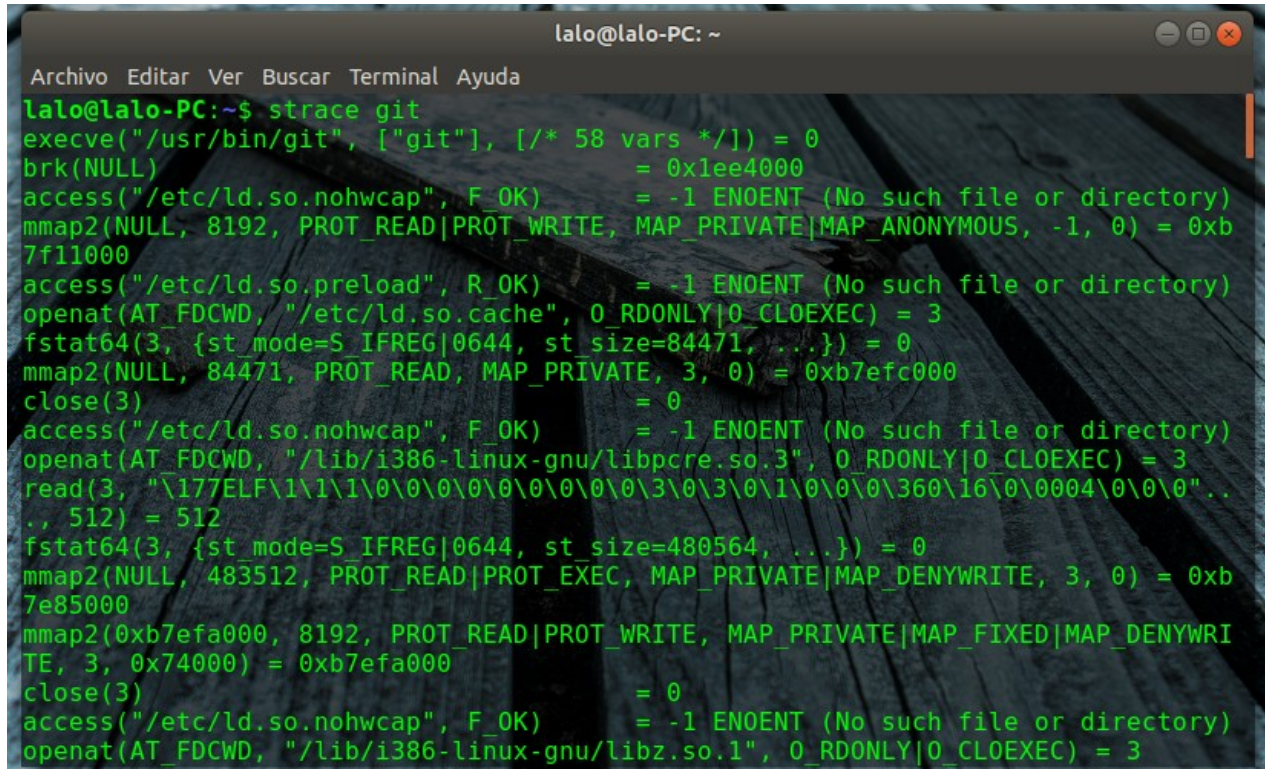
GRUPO: 02

PRÁCTICA: 02

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1. SISTEMA OPERATIVO USADO: **Ubuntu 17.10**
2. PROGRAMA PARA TRAZAR: **strace**
3. PROGRAMA TRAZADO: **git**
4. ¿POR QUÉ ELEGÍ ESTE PROGRAMA?

Porque sencillamente quiero saber cómo funciona esta útil herramienta ‘**desde dentro**’ del sistema operativo, ya que **git** lo estamos ocupando dentro del curso de la materia para el envío de prácticas, tareas, proyectos; simple curiosidad :)



```
lalo@lalo-PC: ~
Archivo Editar Ver Buscar Terminal Ayuda
lalo@lalo-PC:~$ strace git
execve("/usr/bin/git", ["git"], [/* 58 vars */]) = 0
brk(NULL) = 0xlee4000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
mmap2(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xb7f11000
access("/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
fstat64(3, {st_mode=S_IFREG|0644, st_size=84471, ...}) = 0
mmap2(NULL, 84471, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7efc000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libpcr.so.3", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\360\16\0\0004\0\0\0"..
., 512) = 512
fstat64(3, {st_mode=S_IFREG|0644, st_size=480564, ...}) = 0
mmap2(NULL, 483512, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0xb7e85000
mmap2(0xb7efa000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x74000) = 0xb7efa000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libz.so.1", O_RDONLY|O_CLOEXEC) = 3
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lalo@lalo-PC:~$ strace git
execve("/usr/bin/git", ["git"], [/ * 58 vars */]) = 0
brk(NULL) = 0x1ee4000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
mmap2(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7f11000
access("/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
fstat64(3, {st_mode=S_IFREG|0644, st_size=84471, ...}) = 0
mmap2(NULL, 84471, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7efc000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libpcr.so.3", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\360\16\0\0004\0\0\0"...
, 512) = 512
fstat64(3, {st_mode=S_IFREG|0644, st_size=480564, ...}) = 0
mmap2(NULL, 483512, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7e85000
mmap2(0xb7efa000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x74000) = 0xb7efa000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libz.so.1", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\30\0\0004\0\0\0"...
, 512) = 512
fstat64(3, {st_mode=S_IFREG|0644, st_size=120300, ...}) = 0
mmap2(NULL, 122968, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7e66000
mmap2(0xb7e83000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1c000) = 0xb7e83000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libpthread.so.0", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\220P\0\0004\0\0\0"...
, 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=142204, ...}) = 0
mmap2(NULL, 123484, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7e47000
mmap2(0xb7e62000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1a000) = 0xb7e62000
mmap2(0xb7e64000, 4700, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0xb7e64000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/librt.so.1", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\31\0\0004\0\0\0"...
, 512) = 512
fstat64(3, {st_mode=S_IFREG|0644, st_size=34788, ...}) = 0
mmap2(NULL, 37432, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7e3d000
mmap2(0xb7e45000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x7000) = 0xb7e45000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/i386-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3

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read(3, "\\177ELF\\1\\1\\1\\3\\0\\0\\0\\0\\0\\0\\0\\0\\3\\0\\3\\0\\1\\0\\0\\0\\20\\213\\1\\0004\\0\\0\\0"...,
512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1918740, ...}) = 0
mmap2(NULL, 1923612, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7c67000
mprotect(0xb7e36000, 4096, PROT_NONE) = 0
mmap2(0xb7e37000, 12288, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1cf000) = 0xb7e37000
mmap2(0xb7e3a000, 10780, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0xb7e3a000
close(3) = 0
mmap2(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7c65000
set_thread_area({entry_number:-1, base_addr:0xb7c65700, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
(entry_number:6)
mprotect(0xb7e37000, 8192, PROT_READ) = 0
mprotect(0xb7e62000, 4096, PROT_READ) = 0
mprotect(0xb7e45000, 4096, PROT_READ) = 0
mprotect(0xb7e83000, 4096, PROT_READ) = 0
mprotect(0xb7efa000, 4096, PROT_READ) = 0
mprotect(0x757000, 8192, PROT_READ) = 0
mprotect(0xb7f3d000, 4096, PROT_READ) = 0
munmap(0xb7efc000, 84471) = 0
set_tid_address(0xb7c65768) = 4614
set_robust_list(0xb7c65770, 12) = 0
rt_sigaction(SIGRTMIN, {sa_handler=0xb7e4baa0, sa_mask=[], sa_flags=SA_SIGINFO},
NULL, 8) = 0
rt_sigaction(SIGRT_1, {sa_handler=0xb7e4bb30, sa_mask=[], sa_flags=SA_RESTART|
SA_SIGINFO}, NULL, 8) = 0
rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], NULL, 8) = 0
ugetrlimit(RLIMIT_STACK, {rlim_cur=8192*1024, rlim_max=RLIM_INFINITY}) = 0
uname({sysname="Linux", nodename="lalo-PC", ...}) = 0
openat(AT_FDCWD, "/dev/null", O_RDWR|O_LARGEFILE) = 3
close(3) = 0
brk(NULL) = 0x1ee4000
brk(0x1f05000) = 0x1f05000
brk(0x1f06000) = 0x1f06000
open("/usr/lib/locale/locale-archive", O_RDONLY|O_LARGEFILE|O_CLOEXEC) = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=5574176, ...}) = 0
mmap2(NULL, 2097152, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7a65000
mmap2(NULL, 1249280, PROT_READ, MAP_PRIVATE, 3, 0x2db000) = 0xb7934000
mmap2(NULL, 4096, PROT_READ, MAP_PRIVATE, 3, 0x544000) = 0xb7f10000
close(3) = 0
open("/usr/lib/locale/locale-archive", O_RDONLY|O_LARGEFILE|O_CLOEXEC) = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=5574176, ...}) = 0
mmap2(NULL, 4096, PROT_READ, MAP_PRIVATE, 3, 0x547000) = 0xb7f0f000
close(3) = 0
rt_sigprocmask(SIG_UNBLOCK, [PIPE], NULL, 8) = 0
rt_sigaction(SIGPIPE, {sa_handler=SIG_DFL, sa_mask=[PIPE], sa_flags=SA_RESTART},
{sa_handler=SIG_DFL, sa_mask=[], sa_flags=0}, 8) = 0
fstat64(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
write(1, "usage: git [--version] [--help] "..., 281usage: git [--version] [--help]
[-C <path>] [-c name=value]
      [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
      [-p | --paginate | --no-pager] [--no-replace-objects] [--bare]

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    [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
) = 281
write(1, "          <command> [<args>]\n\n", 31          <command> [<args>]

) = 31
open("/usr/share/locale/locale.alias", O_RDONLY|O_CLOEXEC) = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=2995, ...}) = 0
read(3, "# Locale name alias data base.\n#"..., 4096) = 2995
read(3, "", 4096) = 0
close(3) = 0
open("/usr/share/locale/es/LC_MESSAGES/git.mo", O_RDONLY) = -1 ENOENT (No such file
or directory)
open("/usr/share/locale-langpack/es/LC_MESSAGES/git.mo", O_RDONLY) = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=71504, ...}) = 0
mmap2(NULL, 71504, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7efd000
close(3) = 0
open("/usr/lib/i386-linux-gnu/gconv/gconv-modules.cache", O_RDONLY) = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=26256, ...}) = 0
mmap2(NULL, 26256, PROT_READ, MAP_SHARED, 3, 0) = 0xb792d000
close(3) = 0
futexp(0xb7e39fe4, FUTEX_WAKE_PRIVATE, 2147483647) = 0
write(1, "Estas son \303\263rdenes Git usadas en"..., 56Estas son órdenes Git
usadas en diferentes situaciones[*AQUÍ EMPIEZA A EJECUTARSE GIT]
) = 56
open("/usr/share/locale/en/LC_MESSAGES/git.mo", O_RDONLY) = -1 ENOENT (No such file
or directory)
open("/usr/share/locale-langpack/en/LC_MESSAGES/git.mo", O_RDONLY) = -1 ENOENT (No
such file or directory)
write(1, "\n", 1
) = 1
write(1, "start a working area (see also: "..., 51start a working area (see also:
git help tutorial)
) = 51
write(1, "    clone        Clone a repository"..., 54    clone        Clone a repository
into a new directory
) = 54[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE CLONAR UN REPOSITORIO]
write(1, "    init        Create an empty Gi"..., 77    init        Create an empty Git
repository or reinitialize an existing one
) = 77[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE CREAR UN REPOSITORIO]
write(1, "\n", 1
) = 1
write(1, "work on the current change (see "..., 57work on the current change (see
also: git help everyday)
) = 57
write(1, "    add        Add file contents "..., 45    add        Add file contents
to the index
) = 45[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE AGREGAR UN ARCHIVO A UN REPOSITORIO]
write(1, "    mv        Mueva o renombre "..., 86    mv        Mueva o renombre
su archivo a un directorio o cree un enlace simbolico
) = 86[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE MOVER UN ARCHIVO A OTRO DIRECTORIO EN
UN REPOSITORIO]
write(1, "    reset      Restablecer la cab"..., 69    reset      Restablecer la
cabecera al estado actual especificado
) = 69
write(1, "    rm        Eliminar archivos "..., 68    rm        Eliminar archivos
del árbol de trabajo y del índice

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) = 68[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE ELIMINAR UN ARCHIVO DE UN REPOSITORIO]
write(1, "\n", 1
)
    = 1
write(1, "examine the history and state (s"..., 61examine the history and state
(see also: git help revisions)
) = 61
write(1, "    bisect        Use binary search "..., 73    bisect        Use binary search
to find the commit that introduced a bug
) = 73
write(1, "    grep        Print lines matching a pattern"..., 45    grep        Print lines
matching a pattern
) = 45
write(1, "    log        Show commit logs\n", 31    log        Show commit logs
) = 31
write(1, "    show        Mostrar los diversos tipos de objetos"..., 52    show        Mostrar los
diversos tipos de objetos
) = 52
write(1, "    status        Mostrar el estado de los árboles de trabajo"..., 60    status        Mostrar el estado
de los árboles de trabajo
) = 60[*EN ESTA PARTE SE NOS DA UN 'STATUS' DE UN REPOSITORIO]
write(1, "\n", 1
)
    = 1
write(1, "grow, mark and tweak your common history"..., 41grow, mark and tweak your common
history
) = 41
write(1, "    branch        List, create, or delete branches"..., 47    branch        List, create, or
delete branches
) = 47
write(1, "    checkout        Cambiar de rama o restaurar los archivos del árbol de trabajo"..., 77    checkout        Cambiar de rama o
restaurar los archivos del árbol de trabajo
) = 77[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE CAMBIAR DE RAMA EN GIT]
write(1, "    commit        Record changes to the repository"..., 47    commit        Record changes to
the repository
) = 47[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE GUARDAR LOS CAMBIOS EN UN REPOSITORIO]
write(1, "    diff        Show changes between commits, commit and working tree, etc"..., 73    diff        Show changes
between commits, commit and working tree, etc
) = 73[*EN ESTA PARTE SE NOS DA LA OPCIÓN DE MOSTRAR UN HISTORIAL (COMMITTS, PUSH,
ETC) DENTRO DE UN REPOSITORIO]
write(1, "    merge        Join two or more development histories together"..., 62    merge        Join two or more
development histories together
) = 62
write(1, "    rebase        Reapply commits on top of another base tip"..., 57    rebase        Reapply commits on
top of another base tip
) = 57
write(1, "    tag        Crear, listar, eliminar o verificar un objeto de etiqueta firmado con GPG"..., 89    tag        Crear, listar,
eliminar o verificar un objeto de etiqueta firmado con GPG
) = 89
write(1, "\n", 1
)
    = 1
write(1, "collaborate (see also: git help workflows)"..., 43collaborate (see also: git help
workflows)
) = 43
write(1, "    fetch        Download objects and refs from another repository"..., 64    fetch        Download objects
and refs from another repository
) = 64

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write(1, "    pull        Debe integrar con "..., 70    pull        Debe integrar con
otro repositorio o una sucursal local
) = 70
write(1, "    push        Actualizaci\303\263n de "..., 73    push        Actualización
de refs remotas junto con objetos asociados
) = 73
write(1, "\n", 1
)
) = 1
write(1, "'git help -a' and 'git help -g' "..., 133'git help -a' and 'git help -g'
list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
) = 133
write(1, "to read about a specific subcomm"..., 48to read about a specific
subcommand or concept.
) = 48
exit_group(1)
) = ?
+++ exited with 1 +++[*FINALIZA LA EJECUCIÓN]

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