
Subject: [PATCH 3/3] lutimesat: actual syscall and wire-up on i386
Posted by [adobriyan](#) on Fri, 26 Jan 2007 11:17:03 GMT

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lutimesat(2) does everything futimesat(2) does except it doesn't follow symlinks.

It could be used by tar(1) and cp(1).

FreeBSD and NetBSD have lutimes(2) which can be emulated by C library:

lutimesat(AT_FDCWD, filename, utimes)

Closes http://bugme.osdl.org/show_bug.cgi?id=4433

Signed-off-by: Alexey Dobriyan <adobriyan@openvz.org>

```
arch/i386/kernel/syscall_table.S |  1 +
fs/utimes.c          |  9 ++++++++
include/asm-i386/unistd.h |   3 ++
3 files changed, 12 insertions(+), 1 deletion(-)
```

```
--- a/arch/i386/kernel/syscall_table.S
+++ b/arch/i386/kernel/syscall_table.S
@@ -319,3 +319,4 @@ ENTRY(sys_call_table)
.long sys_move_pages
.long sys_getcpu
.long sys_epoll_pwait
+.long sys_lutimesat /* 320 */
--- a/fs/utimes.c
+++ b/fs/utimes.c
@@ -105,3 +105,12 @@ asmlinkage long sys_utimes(char __user *
{
    return sys_futimesat(AT_FDCWD, filename, utimes);
}
+
+asmlinkage long sys_lutimesat(int dfd, char __user *filename, struct timeval __user *utimes)
+{
+    struct timeval times[2];
+
+    if (utimes && copy_from_user(&times, utimes, sizeof(times)))
+        return -EFAULT;
+    return do_utimes(dfd, filename, utimes ? times : NULL, AT_SYMLINK_NOFOLLOW);
}
--- a/include/asm-i386/unistd.h
+++ b/include/asm-i386/unistd.h
@@ -325,10 +325,11 @@ #define __NR_vmsplice 316
```

```
#define __NR_move_pages 317
#define __NR_getcpu 318
#define __NR_epoll_pwait 319
+#define __NR_lutimesat 320

#ifndef __KERNEL__

#define NR_syscalls 320
#define NR_syscalls 321

#define __ARCH_WANT_IPC_PARSE_VERSION
#define __ARCH_WANT_OLD_READDIR
```
