
Subject: Re: [PATCH 4/3] lutimesat: compat syscall and wire up on x86_64

Posted by [adobriyan](#) on Tue, 27 Feb 2007 11:49:16 GMT

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On Tue, Feb 27, 2007 at 02:06:24PM +1100, Stephen Rothwell wrote:

> On Mon, 26 Feb 2007 19:50:24 +0300 Alexey Dobriyan <adobriyan@openvz.org> wrote:

> >

> > +asmlinkage long compat_sys_lutimesat(int dfd, char __user *filename, struct
compat_timespec __user *utimes)

> > +{

> > + struct timespec ts[2];

> > +

> > + if (utimes) {

> > + if (get_user(ts[0].tv_sec, &utimes[0].tv_sec) ||

> > + get_user(ts[0].tv_nsec, &utimes[0].tv_nsec) ||

> > + get_user(ts[1].tv_sec, &utimes[1].tv_sec) ||

> > + get_user(ts[1].tv_nsec, &utimes[1].tv_nsec))

> > + return -EFAULT;

>

> if (get_compat_timespec(&ts[0], &utimes[0]) ||

> get_compat_timespec(&ts[1], &utimes[1]))

> return -EFAULT;

We have it? Thank you!

[PATCH 4/3] lutimesat: compat syscall and wire up on x86_64

[Apply after:

lutimesat-simplify-utime2.patch

lutimesat-extend-do_utimes-with-flags.patch

lutimesat-actual-syscall-and-wire-up-on-i386.patch

Tweak compat syscall number to match normal syscall number if needed.]

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

```
arch/x86_64/ia32/ia32entry.S | 1 +
fs/compat.c                  | 12 ++++++++
fs/utimes.c                  | 2 +-
include/linux/time.h         | 1 +
4 files changed, 15 insertions(+), 1 deletion(-)
```

--- a/arch/x86_64/ia32/ia32entry.S

+++ b/arch/x86_64/ia32/ia32entry.S

@@ -719,4 +719,5 @@ @@ #endif

.quad compat_sys_move_pages

.quad sys_getcpu

```

.quad sys_epoll_pwait
+ .quad compat_sys_lutimesat /* 320 */
ia32_syscall_end:
--- a/fs/compat.c
+++ b/fs/compat.c
@@ -109,6 +109,18 @@ asmlinkage long compat_sys_utimes(char _
    return compat_sys_futimesat(AT_FDCWD, filename, t);
}

+asmlinkage long compat_sys_lutimesat(int dfd, char __user *filename, struct compat_timespec
+__user *utimes)
+{
+ struct timespec ts[2];
+
+ if (utimes) {
+ if (get_compat_timespec(&ts[0], &utimes[0]) ||
+ get_compat_timespec(&ts[1], &utimes[1]))
+ return -EFAULT;
+ }
+ return do_utimes_nsec(dfd, filename, utimes ? ts : NULL, AT_SYMLINK_NOFOLLOW);
+}
+
+asmlinkage long compat_sys_newstat(char __user * filename,
+ struct compat_stat __user *statbuf)
+{
--- a/fs/utimes.c
+++ b/fs/utimes.c
@@ -40,7 +40,7 @@ #endif
 * must be owner or have write permission.
 * Else, update from *times, must be owner or super user.
 */
-static long do_utimes_nsec(int dfd, char __user *filename, struct timespec *times, int flags)
+long do_utimes_nsec(int dfd, char __user *filename, struct timespec *times, int flags)
{
    int error = -EINVAL;
    struct nameidata nd;
--- a/include/linux/time.h
+++ b/include/linux/time.h
@@ -110,6 +110,7 @@ extern int do_settimeofday(struct timespec
extern int do_sys_settimeofday(struct timespec *tv, struct timezone *tz);
#define do_posix_clock_monotonic_gettime(ts) ktime_get_ts(ts)
extern long do_utimes(int dfd, char __user *filename, struct timeval *times, int flags);
+extern long do_utimes_nsec(int dfd, char __user *filename, struct timespec *times, int flags);
struct itimerval;
extern int do_setitimer(int which, struct itimerval *value,
    struct itimerval *ovalue);

```
