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

Posted by [adobriyan](#) on Mon, 26 Feb 2007 16:43:08 GMT

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[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                  | 14 ++++++++
fs/utimes.c                  | 2 +-
include/linux/time.h         | 1 +
4 files changed, 17 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 +109,20 @@ 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_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;
```

```
+ }
```

```
+ 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);

```
