
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 timesp
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);

```
