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Subject: [PATCH 1/3] lutimesat: simplify utime(2)  
Posted by [adobriyan](#) on Fri, 26 Jan 2007 11:14:53 GMT  
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Rewrite via do\_utimes() like compat\_sys\_utime().

Signed-off-by: Alexey Dobriyan <[adobriyan@openvz.org](mailto:adobriyan@openvz.org)>

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fs/utimes.c | 50 ++++++-----  
1 file changed, 7 insertions(+), 43 deletions(-)

--- a/fs/utimes.c

+++ b/fs/utimes.c

@@ -22,52 +22,16 @@ #ifdef \_\_ARCH\_WANT\_SYS\_UTIME

```
*/
asmlinkage long sys_utime(char __user * filename, struct utimbuf __user * times)
{
- int error;
- struct nameidata nd;
- struct inode * inode;
- struct iattr newattrs;
+ struct timeval tv[2];

- error = user_path_walk(filename, &nd);
- if (error)
- goto out;
- inode = nd.dentry->d_inode;
-
- error = -EROFS;
- if (IS_RDONLY(inode))
- goto dput_and_out;
-
- /* Don't worry, the checks are done in inode_change_ok() */
- newattrs.ia_valid = ATTR_CTIME | ATTR_MTIME | ATTR_ATIME;
  if (times) {
- error = -EPERM;
- if (IS_APPEND(inode) || IS_IMMUTABLE(inode))
- goto dput_and_out;
-
- error = get_user(newattrs.ia_atime.tv_sec, &times->actime);
- newattrs.ia_atime.tv_nsec = 0;
- if (!error)
- error = get_user(newattrs.ia_mtime.tv_sec, &times->modtime);
- newattrs.ia_mtime.tv_nsec = 0;
- if (error)
- goto dput_and_out;
-

```

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- newattrs.ia_valid |= ATTR_ATIME_SET | ATTR_MTIME_SET;
- } else {
-     error = -EACCES;
-     if (IS_IMMUTABLE(inode))
-         goto dput_and_out;
-
- if (current->fsuid != inode->i_uid &&
-     (error = vfs_permission(&nd, MAY_WRITE)) != 0)
-     goto dput_and_out;
+ if (get_user(tv[0].tv_sec, &times->actime) ||
+     get_user(tv[1].tv_sec, &times->modtime))
+     return -EFAULT;
+ tv[0].tv_usec = 0;
+ tv[1].tv_usec = 0;
    }
- mutex_lock(&inode->i_mutex);
- error = notify_change(nd.dentry, &newattrs);
- mutex_unlock(&inode->i_mutex);
-dput_and_out:
- path_release(&nd);
-out:
- return error;
+ return do_utimes(AT_FDCWD, filename, times ? tv : NULL);
    }

#endif

```

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