
Subject: Re: [PATCH 1/3] lutimesat: simplify utime(2)
Posted by [Andrew Morton](#) on Fri, 26 Jan 2007 20:41:20 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Fri, 26 Jan 2007 14:21:42 +0300

Alexey Dobriyan <adobriyan@openvz.org> wrote:

```
> Rewrite via do_utimes() like compat_sys_utime().
>
> Signed-off-by: Alexey Dobriyan <adobriyan@openvz.org>
> ---
>
> 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_ETIME;
> - if (times) {
> - error = -EPERM;
> - if (IS_APPEND(inode) || IS_IMMUTABLE(inode))
> - goto dput_and_out;
> -
> - error = get_user(newattrs.ia_etime.tv_sec, &times->actime);
> - newattrs.ia_etime.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;
> -
> - 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

```

I'm somewhat surprised that this wasn't done earlier. I wonder if there's some subtle reason why this won't work. How well tested is this?
