
Subject: Re: [PATCH 1/3] lutimesat: simplify utime(2)
Posted by [Andrew Morton](#) on Fri, 26 Jan 2007 20:41:20 GMT
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On Fri, 26 Jan 2007 14:21:42 +0300

Alexey Dobriyan <adobriyan@openvz.org> wrote:

```
> Rewrite via do_utimes() like compat_sys_utmime().  
>  
> 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_utmime(char __user * filename, struct utimbuf __user * times)  
> {  
> - int error;  
> - struct nameidata nd;  
> - struct inode * inode;  
> - struct iattr newatrrs;  
> + 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() */  
> - newatrrs.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(newatrrs.ia_atime.tv_sec, &times->actime);  
> - newatrrs.ia_atime.tv_nsec = 0;  
> - if (!error)  
> - error = get_user(newatrrs.ia_mtime.tv_sec, &times->modtime);  
> - newatrrs.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?
