

```
asmlinkage long sys_gettimeofday(struct timeval __user *tv, struct timezone __user *tz)
{
    if (likely(tv != NULL)) {
        struct timeval ktv;
        do_gettimeofday(&ktv);
        if (copy_to_user(tv, &ktv, sizeof(ktv)))
            return -EFAULT;
    }
    if (unlikely(tz != NULL)) {
        if (copy_to_user(tz, &sys_tz, sizeof(sys_tz)))
            return -EFAULT;
    }
    return 0;
}
```