
Subject: [RFC] Use jiffies_64 in sched_clock()
Posted by [adobriyan](#) on Fri, 29 Dec 2006 15:45:51 GMT
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Would it make sense to always use jiffies_64 instead of jiffies?
(module hardware specific version)

This is what FRV, UML, one ia64 version, one i386 version do.

Also subtract initial jiffies.

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```
arch/frv/kernel/time.c | 8 -----
arch/um/kernel/time.c | 8 -----
kernel/sched.c         | 3 ++-
3 files changed, 2 insertions(+), 17 deletions(-)
```

```
--- a/arch/frv/kernel/time.c
+++ b/arch/frv/kernel/time.c
@@ -139,11 +139,3 @@ void time_init(void)
```

```
    time_divisor_init();
}
-
-/*
- * Scheduler clock - returns current time in nanosec units.
- */
-unsigned long long sched_clock(void)
-{
-    return jiffies_64 * (1000000000 / HZ);
-}
```

```
--- a/arch/um/kernel/time.c
+++ b/arch/um/kernel/time.c
@@ -27,14 +27,6 @@ int hz(void)
    return(HZ);
}
```

```
-/*
- * Scheduler clock - returns current time in nanosec units.
- */
-unsigned long long sched_clock(void)
-{
-    return (unsigned long long)jiffies_64 * (1000000000 / HZ);
-}
-
static unsigned long long prev_nsecs;
```

```
#ifdef CONFIG_UML_REAL_TIME_CLOCK
static long long delta; /* Deviation per interval */
--- a/kernel/sched.c
+++ b/kernel/sched.c
@@ -64,7 +64,8 @@ #include <asm/unistd.h>
 */
unsigned long long __attribute__((weak)) sched_clock(void)
{
- return (unsigned long long)jiffies * (1000000000 / HZ);
+ /* No locking but a rare wrong value is not a big deal. */
+ return (jiffies_64 - INITIAL_JIFFIES) * (1000000000 / HZ);
}

/*
```
