

## Re: [2.6.4-rc2] bogus semicolon behind if()

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-03/4170.html>

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**From:** Maciej W. Rozycki ([macro\\_at\\_ds2.pg.gda.pl](mailto:macro_at_ds2.pg.gda.pl))

**Date:** 03/17/04

Date: Wed, 17 Mar 2004 18:20:26 +0100 (CET)

To: Philippe Elie <[phil.el@wanadoo.fr](mailto:phil.el@wanadoo.fr)>, Thomas Schlichter <[thomas.schlichter@web.de](mailto:thomas.schlichter@web.de)>

On Wed, 10 Mar 2004, Philippe Elie wrote:

> > As I wrote a few days ago I have problems with that *ChangeSet*,  
> > (<http://marc.theaimsgroup.com/?l=linux-kernel&m=107840458123059&w=2>)  
> > so I did examine it closer.  
>  
> errmm, <http://tinyurl.com/2jbe4>  
>  
> Maciej, you wrote this patch, any comment ?

Yep, that's a stupid typo, but the bug would only trigger for a system that would have:

1. a discrete 82489DX APIC,
2. a functional TSC,
3. a timer interrupt working through the I/O APIC,
4. a working I/O APIC NMI watchdog.

Such systems used to actually exist, but you'd have a hard time trying to find one.

Here's an obvious update. Thomas, thanks for spotting it.

Maciej

```
--
+ Maciej W. Rozycki, Technical University of Gdansk, Poland +
+-----+
+ e-mail: macro@ds2.pg.gda.pl, PGP key available +
patch-2.6.4-timer_ack-fix-0
diff -up --recursive --new-file linux-2.6.4.macro/arch/i386/kernel/io_apic.c linux-2.6.4/arch/i386
--- linux-2.6.4.macro/arch/i386/kernel/io_apic.c 2004-03-17 17:09:29.000000000 +0000
+++ linux-2.6.4/arch/i386/kernel/io_apic.c 2004-03-17 17:11:07.000000000 +0000
@@ -2195,7 +2195,7 @@ static inline void check_timer(void)
                                disable_8259A_irq(0);
                                setup_nmi();
                                enable_8259A_irq(0);
```

## Linux-Kernel: Re: [2.6.4-rc2] bogus semicolon behind if()

```
-             if (check_nmi_watchdog() < 0);
+             if (check_nmi_watchdog() < 0)
+                 timer_ack = !cpu_has_tsc;
                }
                return;
@@ -2219,7 +2219,7 @@ static inline void check_timer(void)
                add_pin_to_irq(0, 0, pin2);
                if (nmi_watchdog == NMI_IO_APIC) {
                    setup_nmi();
-                    if (check_nmi_watchdog() < 0);
+                    if (check_nmi_watchdog() < 0)
+                        timer_ack = !cpu_has_tsc;
                }
                return;
```

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