

2.6.14-rt21 doesn't build for ppc

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/9456.html>

From: Egan (tony.egan_at_timesys.com)

Date: 11/29/05

Date: Tue, 29 Nov 2005 11:57:55 -0500

To: linux-kernel@vger.kernel.org

2.6.14 with RT21 fails to build for ppc (ibm440gx).

```
CC kernel/timer.o
/home/egan/downloads/linux-2.6.14/kernel/timer.c: In function `phase_advance':
/home/egan/downloads/linux-2.6.14/kernel/timer.c:991: error: `time_phase' undeclared (first use in this
function)
/home/egan/downloads/linux-2.6.14/kernel/timer.c:991: error: (Each undeclared identifier is reported only
once
/home/egan/downloads/linux-2.6.14/kernel/timer.c:991: error: for each function it appears in.)
/home/egan/downloads/linux-2.6.14/kernel/timer.c:994: warning: type defaults to `int' in declaration of
`__x'
/home/egan/downloads/linux-2.6.14/kernel/timer.c: In function `update_wall_time':
/home/egan/downloads/linux-2.6.14/kernel/timer.c:1050: error: too few arguments to function
`phase_advance'
/home/egan/downloads/linux-2.6.14/kernel/timer.c:1040: warning: unused variable `time_phase'
make[2]: *** [kernel/timer.o] Error 1
make[1]: *** [kernel] Error 2
make: *** [zImage] Error 2
```

Adding config GENERIC_TIME to arch/ppc/Kconfig results in a failure later in the build.

```
CC kernel/time/clockevents.o
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:80: error: conflicting types for
'timer_interrupt'
include2/asm/hw_irq.h:12: error: previous declaration of 'timer_interrupt' was here
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:80: error: conflicting types for
'timer_interrupt'
include2/asm/hw_irq.h:12: error: previous declaration of 'timer_interrupt' was here
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c: In function `handle_tick_update_profile':
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:126: warning: implicit declaration of
function `profile_tick'
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:126: error: `CPU_PROFILING' undeclared
(first use in this function)
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:126: error: (Each undeclared identifier is
reported only once
```

Linux-Kernel: 2.6.14-rt21 doesn't build for ppc

```
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:126: error: for each function it appears in.)
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c: In function `handle_update_profile':
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:143: error: `CPU_PROFILING' undeclared
(first use in this function)
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c: In function `handle_profile':
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:151: error: `CPU_PROFILING' undeclared
(first use in this function)
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c: In function `setup_event':
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:326: error: `SA_NODELAY' undeclared
(first use in this function)
/home/egan/downloads/linux-2.6.14/kernel/time/clockevents.c:329: warning: implicit declaration of
function `setup_irq'
make[3]: *** [kernel/time/clockevents.o] Error 1
make[2]: *** [kernel/time] Error 2
make[1]: *** [kernel] Error 2
make: *** [zImage] Error 2
```

After some research it looks like this breakage was introduced by rt16.
rt15 builds OK.

Please retain my CC in any replies.

Thanks,

Tony

-

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in
the body of a message to majordomo@vger.kernel.org
More majordomo info at <http://vger.kernel.org/majordomo-info.html>
Please read the FAQ at <http://www.tux.org/lkml/>