

[patch] Add insmod option to force the use of the backup timer.

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The test which automatically enables the backup timer on some HP machines doesn't trigger on other hardware which needs the backup timer too.

This patch add a way to enable it manually (8250.use\_backup\_timer=1) to deal with these machines.

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drivers/serial/8250.c | 7 +++++--  
1 file changed, 5 insertions(+), 2 deletions(-)

Index: vanilla-2.6.21-rc2/drivers/serial/8250.c

```
=====
--- vanilla-2.6.21-rc2.orig/drivers/serial/8250.c
+++ vanilla-2.6.21-rc2/drivers/serial/8250.c
@@ -52,8 +52,8 @@
* is unsafe when used on edge-triggered interrupts.
*/
static unsigned int share_irqs = SERIAL8250_SHARE_IRQS;
-
static unsigned int nr_uarts = CONFIG_SERIAL_8250_RUNTIME_UARTS;
+static unsigned int use_backup_timer;

/*
* Debugging.
@@ -1729,7 +1729,7 @@ static int serial8250_startup(struct uar
* If the interrupt is not reasserted, setup a timer to
* kick the UART on a regular basis.
*/
- if (iir & UART_IIR_NO_INT) {
+ if (iir & UART_IIR_NO_INT || use_backup_timer) {
pr_debug("ttyS%d - using backup timer\n", port->line);
up->timer.function = serial8250_backup_timeout;
up->timer.data = (unsigned long)up;
@@ -2805,6 +2805,9 @@ module_param(share_irqs, uint, 0644);
```

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```
MODULE_PARM_DESC(share_irqs, "Share IRQs with other non-8250/16x50 devices"  
" (unsafe)");
```

```
+module_param(use_backup_timer, uint, 0644);  
+MODULE_PARM_DESC(use_backup_timer, "use backup timer");  
+  
module_param(nr_uarts, uint, 0644);  
MODULE_PARM_DESC(nr_uarts, "Maximum number of UARTs supported. (1-"  
__MODULE_STRING(CONFIG_SERIAL_8250_NR_UARTS) ")");
```

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