

Linux-Kernel: [patch 6/8] serial/mcfserial: replace schedule_timeout() with msleep_interruptible()

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Any comments would be appreciated.

Description: Use msleep_interruptible() instead of schedule_timeout() to guarantee the task delays as expected. Use set_current_state() instead of direct assignment of current->state.

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```
---
 linux-2.6.10-rc1-max/drivers/serial/mcfserial.c |    9 ++++-----
 1 files changed, 4 insertions(+), 5 deletions(-)
diff -puN drivers/serial/mcfserial.c~msleep_interruptible-drivers_serial_mcfserial drivers/serial
--- linux-2.6.10-rc1/drivers/serial/mcfserial.c~msleep_interruptible-drivers_serial_mcfserial    2
+++ linux-2.6.10-rc1-max/drivers/serial/mcfserial.c      2004-10-24 17:05:29.000000000 +0200
@@ -35,6 +35,7 @@
 #include <linux/console.h>
 #include <linux/init.h>
 #include <linux/bitops.h>
+#include <linux/delay.h>

 #include <asm/io.h>
 #include <asm/irq.h>
@@ -978,7 +979,7 @@ static void send_break(      struct mcf_seria

     if (!info->addr)
         return;
-    current->state = TASK_INTERRUPTIBLE;
+    set_current_state(TASK_INTERRUPTIBLE);
     uartp = info->addr;

     local_irq_save(flags);
@@ -1230,8 +1231,7 @@ static void mcfrs_close(struct tty_struct
 #endif
     if (info->blocked_open) {
         if (info->close_delay) {
-            current->state = TASK_INTERRUPTIBLE;
-            schedule_timeout(info->close_delay);
```

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```
+             msleep_interruptible(jiffies_to_msecs(info->close_delay));
+         }
+         wake_up_interruptible(&info->open_wait);
+     }
@@ -1296,8 +1296,7 @@ mcfserial_wait_until_sent(struct tty_struct
+         fifo_cnt++;
+         if (fifo_cnt == 0)
+             break;
-         set_current_state(TASK_INTERRUPTIBLE);
-         schedule_timeout(char_time);
+         msleep_interruptible(jiffies_to_msecs(char_time));
+         if (signal_pending(current))
+             break;
+         if (timeout && time_after(jiffies, orig_jiffies + timeout))
```

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