

Making thread time visible to `ps`

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-09/8601.html>

From: linux-os (Dick Johnson) (linux-os_at_analogic.com)

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To: "Linux kernel" <linux-kernel@vger.kernel.org>

Hello,

This is the kernel thread in a module. It gets awakened to do some work as a result of an interrupt. It does the right thing and works.

But... `ps` never shows it using ANY cpu time! I know that the procedure, `read_fifo()` takes about 600,000 cpu clocks, measured with `rdtsc`, so I would expect that that time would be visible. Does anybody know how to make the time that a kernel thread uses, become visible to `ps` ???

```
static int32_t local_thread(void *unused)
{
    DAEMONIZE; // In config.h
    SET_PRIORITY(-19); // In config.h
    memcpy(current->comm, task_name, sizeof(task_name));
    set_current_state(TASK_INTERRUPTIBLE);
    schedule_timeout(0); // Let insmod complete
    __asm__ __volatile__ ("thread:\n.global thread\n");
    for(;;)
    {
        set_current_state(TASK_INTERRUPTIBLE);
        if(signal_pending(current))
            complete_and_exit(&info->quit, 0);
        interruptible_sleep_on(&info->twait);
        set_current_state(TASK_RUNNING);
        read_fifo();
    }
    return 0; // Just quiet the compiler
}
```

Cheers,

Dick Johnson

Penguin : Linux version 2.6.13 on an i686 machine (5589.55 BogoMips).

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Warning : 98.36% of all statistics are fiction.

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