Subject: Re: [PATCH] kthread: saa7134-tvaudio.c
Posted by Cedric Le Goater on Wed, 30 Aug 2006 16:30:27 GMT
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Andrew Morton wrote:
> On Tue, 29 Aug 2006 14:15:55 -0700
> Sukadev Bhattiprolu <sukadev@us.ibm.com> wrote:
>
>> Replace kernel_thread() with kthread_run() since kernel_thread()
>> is deprecated in drivers/modules.
>>
>> Note that this driver, like a few others, allows SIGTERM. Not
>> sure if that is affected by conversion to kthread. Appreciate
>> any comments on that.
>>
>
> hm, I think this driver needs more help.
>
> - It shouldn't be using signals at all, really. Signals are for
>   userspace IPC. The kernel internally has better/richer/faster/tighter
>   ways of inter-thread communication.
>
> - saa7134_tvaudio_fini()-versus-tvaudio_sleep() looks racy:
>
> if (dev->thread.scan1 == dev->thread.scan2 && !dev->thread.shutdown) {
>   if (timeout < 0) {
>   set_current_state(TASK_INTERRUPTIBLE);
>   schedule();
>
>   If the wakeup happens after the test of dev->thread.shutdown, that sleep will
>   be permanent.
>
>
> So in general, yes, the driver should be converted to the kthread API -
> this is a requirement for virtualisation, but I forget why, and that's the
> "standard" way of doing it.
>
> - The signal stuff should go away if at all possible.

The thread of this driver allows SIGTERM for some obscure reason. Not sure
why, I didn't find anything relying on it.

could we just remove the allow_signal() ?

C.

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