Subject: Re: [PATCH] usbatm: Update to use the kthread api. Posted by ebiederm on Thu, 14 Dec 2006 22:51:42 GMT

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Grr. I missed this message first time through, the copy addressed to me did not make only the mailing list copy made it:(

Duncan Sands <balldrick@free.fr> writes:

```
> I'm not in love with signals either, however...
>
>> The paradigm in a kthread world for waking up kernel threads is by
>> calling kthread_stop, and then for testing if a kernel thread should
>> stop is by calling kthread_should_stop.
> I considered this, but rejected it because of this comment:
 * kthread_stop - stop a thread created by kthread_create().
> * ... Your threadfn() must not call do exit()
  * itself if you use this function! ...
> and this one:
  * ... @threadfn can either call do_exit() directly if it is a
 * standalone thread for which noone will call kthread_stop(), or
> * return when 'kthread should stop()' is true (which means
> * kthread stop() has been called).
> Most of the time the kernel thread starts, performs heavy init,
> and exits. The above comments seem to imply that it is wrong
> to call do_exit if kthread_stop might be called, and wrong to
> return if kthread_stop has not been called. This seems to exclude
> the case where kthread_stop is sometimes, but not always, called,
> and the thread sometimes exits without kthread stop having been
> called. But perhaps I misunderstood, since it seems there is kthread
> code to handle the case of a threadfn that returns without kthread stop
> having been called, witness this comment:
       /* It might have exited on its own, w/o kthread stop. Check. */
> It's still not clear to me, so if you can enlighten me, please do!
```

This is a good point. I was going to say we could work around this with checks in usbatm_do_heavy_init but that appears racy.

I guess I need to think a little more. I remember seeing this and not worry about it because SIGTERM didn't seem to be caught, so it didn't appear needed.

- >> I think the reduction in complexity and the increase in uniformity
- >> is most likely worth it.

>>

- >> If all else fails I'm happy with something simpler like Cedric's
- >> patch which takes care of the things that I currently have a problem
- >> with, but I'm willing to work through this to make it a through
- >> cleanup.

>

- > You have a problem with the pid, right? Well, that is easily
- > cured in itself. I'll spin a patch for it a bit later, unless
- > someone else gets there first. And if you can confirm that kthread stop
- > can be used in this situation (i.e. thread can spontaneously return
- > without kthread_stop) then I'm happy to convert everyone over to checking
- > kthread_should_stop.

To be clear I have a problem with using numeric pids of kernel threads, and with spawning threads from a possibly user space environment. So on my hitlist are (kill_proc, daemonize, and kernel_thread).

If it the original process is a user space thread it is possible to capture pieces of the user space environment unintentionally daemonize is supposed to fix that but only does for the pieces of user space environment that people have anticipated you can capture.

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