Subject: Re: [PATCH] kthread: saa7134-tvaudio.c Posted by Cedric Le Goater on Wed, 30 Aug 2006 16:18:55 GMT View Forum Message <> Reply to Message

Eric W. Biederman wrote:

[...]

- >>> That plus the obvious bit. For the pid namespace we have to declare
- >>> war on people storing a pid_t values. Either converting them to
- >>> struct pid * or removing them entirely. Doing the kernel_thread to
- >>> kthread conversion removes them entirely.
- >> we've started that war, won a few battles but some drivers need more work
- >> that a simple replace. If we could give some priorities, it would help to
- >> focus on the most important ones. check out the list bellow.
- > > Sure, I think I can help.

>

- > There are a couple of test I can think of that should help.
- > 1) Is the pid value stored. If not a pid namespace won't affect
- > it's normal operation.

I've extracted this list from a table which includes a pid cache column. this pid cache column is not complete yet. I'd be nice if we could use a wiki to maintain this table, the existing openvz or vserver wiki?

- > 2) Is this thread started during kernel boot before this thread
- > could have a user space parent. If it can't have a user space
- > parent then it can't take a reference to user space resources.

ok we need to add this one.

- > 3) Can the code be compiled modular and will it break when we stop
- > exporting kernel_thread.

got that also.

- > 4) How frequently is this thing used. The more common code is probably
- > in better shape and more likely to get a good maintainer response, and
- > we care more :)

sure :) some drivers are for some exotic piece of hardware that are not currently found on a standard server.

- > irgbalanced from arch/i386/kernel/io_apic.c should be safe to leave alone
- > because it doesn't store a pid_t, it is started during boot, and it can't
- > be compiled modular.

>

- >>From what I have seen you can shorten the list by several entries by removing
- > code like irgbalanced that can't possibly cause us any problems.
- > kvoyagerd from arch/i386/mach-voyager/voyager_thread.c is another one.

ok thanks, will update.

- > The first on my personal hit list is nfs.
- >> fs/lockd/clntlock.c
- >> fs/nfs/delegation.c
- >> net/sunrpc/svc.c

>

- > Because it does store pid_t values, it isn't started during kernel boot,
- > it can be compiled modular, and people use it all of the time.

yes yes. hard stuff though which requires time.

- > I do agree from what I have seen, that changing idioms to the kthread way of
- > doing things isn't simply a matter of substitute and replace which is
- > unfortunate. Although the biggest hurdle seems to be to teach kernel threads
- > to communicate with something besides signals. Which is a general help anyway.

>

- > Unfortunately I'm distracted at the moment so I haven't gone through the entire
- > list but I hope this helps.

we would need a wiki to maintain the work in progress on that topic while we work on the pidspace.

another list to maintain would be the pid t to struct pid replacement.

C.

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