
Subject: Re: [PATCH] sas_scsi_host: Convert to use the kthread API

Posted by [akpm](#) on Fri, 20 Apr 2007 00:37:53 GMT

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On Thu, 19 Apr 2007 01:58:38 -0600

"Eric W. Biederman" <ebiederm@xmission.com> wrote:

> From: Eric W. Biederman <ebiederm@xmission.com>

>

> This patch modifies the sas_scsi host thread startup

> to use kthread_run not kernel_thread and daemonize.

> kthread_run is slightly simpler and more maintainable.

>

Again, I'll rename this to "partially convert...". This driver should be using kthread_should_stop() and kthread_stop() rather than the apparently-unnecessary ->queue_thread_kill thing.

This driver was merged two and a half years after the kthread API was available. Our coding-vs-reviewing effort is out of balance.

> ---

> drivers/scsi/libsas/sas_scsi_host.c | 11 ++++++-----

> 1 files changed, 6 insertions(+), 5 deletions(-)

>

> diff --git a/drivers/scsi/libsas/sas_scsi_host.c b/drivers/scsi/libsas/sas_scsi_host.c

> index 46ba3a7..7a38ac5 100644

> --- a/drivers/scsi/libsas/sas_scsi_host.c

> +++ b/drivers/scsi/libsas/sas_scsi_host.c

> @@ -40,6 +40,7 @@

> #include <linux/blkdev.h>

> #include <linux/scatterlist.h>

> #include <linux/freezer.h>

> +#include <linux/kthread.h>

>

> /* ----- SCSI Host glue ----- */

>

> @@ -870,7 +871,6 @@ static int sas_queue_thread(void *_sas_ha)

> struct sas_ha_struct *sas_ha = _sas_ha;

> struct scsi_core *core = &sas_ha->core;

>

> - daemonize("sas_queue_%d", core->shost->host_no);

> current->flags |= PF_NOFREEZE;

>

> complete(&queue_th_comp);

> @@ -891,19 +891,20 @@ static int sas_queue_thread(void *_sas_ha)

>

```

> int sas_init_queue(struct sas_ha_struct *sas_ha)
> {
> - int res;
>   struct scsi_core *core = &sas_ha->core;
> + struct task_struct *task;
>
>   spin_lock_init(&core->task_queue_lock);
>   core->task_queue_size = 0;
>   INIT_LIST_HEAD(&core->task_queue);
>   init_MUTEX_LOCKED(&core->queue_thread_sema);
>
> - res = kernel_thread(sas_queue_thread, sas_ha, 0);
> - if (res >= 0)
> + task = kthread_run(sas_queue_thread, sas_ha,
> +   "sas_queue_%d", core->shost->host_no);
> + if (!IS_ERR(task))
>   wait_for_completion(&queue_th_comp);
>
> - return res < 0 ? res : 0;
> + return IS_ERR(task) ? PTR_ERR(task) : 0;

```

Does that wait_for_completion(&queue_th_comp) actually do anything useful?

If so, what is serialising access to the single queue_th_comp?

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<https://lists.linux-foundation.org/mailman/listinfo/containers>
