
Subject: Re: [PATCH] Check for error returned by kthread_create on creating journal thread

Posted by [Christoph Hellwig](#) on Mon, 16 Apr 2007 10:21:07 GMT

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On Mon, Apr 16, 2007 at 11:41:14AM +0400, Pavel Emelianov wrote:

> If the thread failed to create the subsequent wait_event

> will hang forever.

>

> This is likely to happen if kernel hits max_threads limit.

>

> Will be critical for virtualization systems that limit the

> number of tasks and kernel memory usage within the container.

> --- ./fs/jbd/journal.c.jbdthreads 2007-04-16 11:17:36.000000000 +0400

> +++ ./fs/jbd/journal.c 2007-04-16 11:30:09.000000000 +0400

> @@ -211,10 +211,16 @@ end_loop:

> return 0;

> }

>

> -static void journal_start_thread(journal_t *journal)

> +static int journal_start_thread(journal_t *journal)

> {

> - kthread_run(kjournald, journal, "kjournald");

> + struct task_struct *t;

> +

> + t = kthread_run(kjournald, journal, "kjournald");

> + if (IS_ERR(t))

> + return PTR_ERR(t);

> +

> wait_event(journal->j_wait_done_commit, journal->j_task != 0);

Note that this wait_event should exist at all, and the return value of kthread_run should be assigned to journal->j_task. Also the code doesn't use the kthread primitives in other places leading to cruffy code.
