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

Posted by [xemul](#) on Mon, 23 Apr 2007 06:13:45 GMT

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Andrew Morton wrote:

> On Mon, 16 Apr 2007 11:41:14 +0400

> Pavel Emelianov <xemul@sw.ru> 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.

>>

>>

>> [diff-jbd-check-start-journal-thread-return-value text/plain (1.7KB)]

>> --- ./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);

>> + return 0;

>> }

>

> Thanks. Please don't forget those Signed-off-by:s

I will :)

> I assume that you runtime tested this and that the mount failed in
> an appropriate fashion?

>

Yes. This was easy to test as we can force kthread_run() to fail

at the moment we want with the help of the beancounters ;)

Moreover this patch lives in our tree for a year or so in both stable and development branches.
