
Subject: Re: Lost JBD fix

Posted by [Jens Axboe](#) on Thu, 12 Jul 2007 06:50:11 GMT

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On Wed, Jul 11 2007, Chuck Ebbert wrote:

> On 07/09/2007 02:14 PM, Jan Kara wrote:

>> Hi Andrew,

>>

>> it seems we've accidentally lost one JBD fix (probably it was my mistake
>> when rediffing some checkpointing changes) as Kirill has noted. A transaction
>> can currently be released when there are still some buffers on one of its
>> checkpointing lists. Attached patch should fix it (it still seems to apply
>> fine). Please apply it. Thanks.

>>

>> Honza

>>

>>

>> -----

>>

>> We have to check that also the second checkpoint list is non-empty before
>> dropping the transaction.

>>

>> Signed-off-by: Jan Kara <jack@suse.cz>

>>

>> diff -rupX /home/jack/.kerndiffexclude linux-2.6.16-rc1/fs/jbd/commit.c
linux-2.6.16-rc1-1-checkpoint-fix/fs/jbd/commit.c

>> --- linux-2.6.16-rc1/fs/jbd/commit.c 2006-01-15 00:20:12.000000000 +0100

>> +++ linux-2.6.16-rc1-1-checkpoint-fix/fs/jbd/commit.c 2006-01-17 23:35:19.000000000 +0100

>> @@ -829,7 +829,8 @@ restart_loop:

>> journal->j_committing_transaction = NULL;

>> spin_unlock(&journal->j_state_lock);

>>

>> - if (commit_transaction->t_checkpoint_list == NULL) {

>> + if (commit_transaction->t_checkpoint_list == NULL &&

>> + commit_transaction->t_checkpoint_io_list == NULL) {

>> __journal_drop_transaction(journal, commit_transaction);

>> } else {

>> if (journal->j_checkpoint_transactions == NULL) {

>

> Critical bugfix -- 2.6.22-stable (no earlier versions) should get

> this too, right?

And don't forget that we have a jbd2/ clone as well, for the hugely
successful ext4 project as well.

--

Jens Axboe

Subject: Re: Lost JBD fix

Posted by [Andrew Morton](#) on Thu, 12 Jul 2007 06:56:40 GMT

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On Thu, 12 Jul 2007 08:50:11 +0200 Jens Axboe <jens.axboe@oracle.com> wrote:

```
>>> - if (commit_transaction->t_checkpoint_list == NULL) {
>>> + if (commit_transaction->t_checkpoint_list == NULL &&
>>> +   commit_transaction->t_checkpoint_io_list == NULL) {
>>>   __journal_drop_transaction(journal, commit_transaction);
>>> } else {
>>>   if (journal->j_checkpoint_transactions == NULL) {
>>
>> Critical bugfix -- 2.6.22-stable (no earlier versions) should get
>> this too, right?
>
> And don't forget that we have a jbd2/ clone as well, for the hugely
> succesful ext4 project as well.
```

Yeah, I did that. Again.
