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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](mailto: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.

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Jens Axboe

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