Subject: Re: Problem: LTP linkat01 test fails on nfs directory (NFS v3) Posted by gblond on Fri, 21 Sep 2007 14:39:35 GMT View Forum Message <> Reply to Message On the Friday 21 September 2007 16:37 Trond Myklebust, wrote: > On Fri, 2007-09-21 at 13:13 +0400, Vitaliy Gusev wrote: > > Hello. > > > > Tested kernels: 2.6.18, 2.6.22, 2.6.23-rc2 >> Steps to reproduce: Suppose that we have mounted some directory from nfs > > v3 server with default options. Also we have the two directories in this > > mountpoint and each directory has hard linked file. Try to open those > > files and write to one and read from another. Data will not be equal. > > (Testcase: attached hardlink_test.c) > > Please retry after re-exporting the filesystem using the highly > recommended "no_subtree_check" option. The default subtree_check option > is broken: it changes the filehandle of the file upon a cross-directory > rename() of that file. Ok, problem goes out. Default option depends on nfs-utils release. >> Please explain why nfs_find_actor() function compares file handles? > 'cos this is the only way to know that two files are the same. fileid is > not always supported by servers: it is an optional NFSv4 attribute, and >From RFC3010 (NFSv4) section 2.4.1 : "For example, if paths /a/b/c and /a/d/c refer to the same file, the server SHOULD return the same filehandle for both path names traversals". For NFSv4 problem should not be shown. > on NFSv3, most non-posix filesystems will fake it using something like > iunique(). > > Comparing filehandles allows you to be certain that two files are the > same if the filehandles are equal. If they are not equal, then that does > not guarantee that the files are different, but then how else are you > going to determine it?

Page 1 of 1 ---- Generated from

Thanks, Vitaliy Gusev