Subject: Re: [RFC][PATCH] Pid namespaces vs locks interaction
Posted by gblond on Thu, 13 Dec 2007 14:13:56 GMT
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On 12 December 2007 21:42:25 Serge E. Hallyn wrote:
> Ok sorry - by letting this thread sit a few days I lost track of where
> we were.
>
> I see now, so you're saying fl_pid for nfs is not in fact a task pid.
> It's a magically derived unique id. (And you say it is unique across
> all the nfs clients?)

It is unique for pair client,server.

>
> So does the p in fl_pid stand for something, or could we rename it to
> fl_id or fl_uniqueid?

If fl_pid will be renamed with fl_uniqueid or something, it still need accessing from fs/locks.c: cat /proc/locks shows pids which also are NFS pids (unique id).

For example, let's look the /proc/locks in my system (NFS-server) when do flock on a NFS client:

1: POSIX ADVISORY WRITE 2 08:06:63116 0 EOF
2: POSIX ADVISORY WRITE 7047 08:09:1899694 0 EOF
3: FLOCK ADVISORY WRITE 3334 08:06:110497 0 EOF
4: FLOCK ADVISORY WRITE 3265 08:06:94786 0 EOF
5: POSIX ADVISORY WRITE 2582 08:06:110462 0 EOF

It indicates that process with pid 2 has a posix lock. Really it is a NFS unique id. Problem can be solved by using pid of lockd.

> Maybe that's too much bother, but so long as we're bothering with a pid
> cleanup at all it seems worth it to me. On the other hand maybe
> J. Bruce Fields was right and we should accept the fact that the
> flock->fl_pid shouldn't be taken too seriously, and leave it be.

Mix pids from some namespaces is not good. We can store process pid seen from init namespace to the flock->fl_pid (instead pid from the current namespace). Thus fcntl(F_GETLK,...) and "cat /proc/locks" will show global pids. But some LTP tests can fail.

>
> -serge
>

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Thank,
Vitaliy Gusev

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