
Subject: Re: [RFC][PATCH] Pid namespaces vs locks interaction

Posted by [gblond](#) on Thu, 06 Dec 2007 15:19:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

On 6 December 2007 17:53:40 Serge E. Hallyn wrote:

> Quoting Vitaliy Gusev (vgusev@openvz.org):

> > Hello!

> >

> > I am working on pid namespaces vs locks interaction and want to evaluate
> > the idea.

> > fcntl(F_GETLK,..) can return pid of process for not current pid namespace

> > (if process is belonged to the several namespaces). It is true also for

> > pids in /proc/locks. So correct behavior is saving pointer to the struct

> > pid of the process lock owner.

> > --

> > Thank,

> > Vitaliy Gusev

> >

> > diff --git a/fs/locks.c b/fs/locks.c

> > index 8b8388e..d2d3d75 100644

> > --- a/fs/locks.c

> > +++ b/fs/locks.c

> > @@ -125,6 +125,7 @@

> > #include <linux/syscalls.h>

> > #include <linux/time.h>

> > #include <linux/rcupdate.h>

> > +#include <linux/pid_namespace.h>

> >

> > #include <asm/semaphore.h>

> > #include <asm/uaccess.h>

> > @@ -185,6 +186,7 @@ void locks_init_lock(struct file_lock *fl)

> > fl->fl_fasync = NULL;

> > fl->fl_owner = NULL;

> > fl->fl_pid = 0;

> > + fl->fl_nspid = NULL;

>

> The idea seems right, but why are you keeping fl->fl_pid around?

>

> Seems like the safer thing to do would be to have a separate

> struct user_flock, with an integer pid, for communicating to userspace,

> and a struct flock, with struct pid, for kernel use? Then fcntl_getlk()

> and fcntl_setlk() do the appropriate conversions.

fl_pid is used by nfs, fuse and gfs2. For instance nfs keeps in fl_pid some
unique id to identify locking process between hosts - it is not a process
pid.

>

> thanks,
> -serge
> -
> To unsubscribe from this list: send the line "unsubscribe linux-fsdevel" in
> the body of a message to majordomo@vger.kernel.org
> More majordomo info at <http://vger.kernel.org/majordomo-info.html>

--

Thank,
Vitaliy Gusev

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
