Subject: Re: [PATCH v7 1/3] cgroups: read-write lock CLONE_THREAD forking per threadgroup

Posted by Ben Blum on Fri, 04 Feb 2011 21:43:54 GMT

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On Fri, Feb 04, 2011 at 01:36:57PM -0800, Andrew Morton wrote:
> On Fri. 4 Feb 2011 16:25:15 -0500
> Ben Blum <bblum@andrew.cmu.edu> wrote:
> On Mon, Jan 24, 2011 at 01:05:29PM -0800, Andrew Morton wrote:
> > On Sun, 26 Dec 2010 07:09:51 -0500
>>> Ben Blum <bblum@andrew.cmu.edu> wrote:
>>>
>>> Adds functionality to read/write lock CLONE_THREAD fork()ing per-threadgroup
>>> From: Ben Blum <bblum@andrew.cmu.edu>
>>>>
>>> This patch adds an rwsem that lives in a threadgroup's signal struct that's
>>> taken for reading in the fork path, under CONFIG CGROUPS. If another part of
>>> the kernel later wants to use such a locking mechanism, the CONFIG CGROUPS
>>> ifdefs should be changed to a higher-up flag that CGROUPS and the other system
>>> would both depend on.
>>> This is a pre-patch for cgroup-procs-write.patch.
>>>> ...
>>>>
>>> +/* See the declaration of threadgroup fork lock in signal struct. */
>>> +#ifdef CONFIG CGROUPS
>>> +static inline void threadgroup_fork_read_lock(struct task_struct *tsk)
>>>+{
>>> + down_read(&tsk->signal->threadgroup_fork_lock);
>>>+
>>> +static inline void threadgroup_fork_read_unlock(struct task_struct *tsk)
>>>+{
>>> + up_read(&tsk->signal->threadgroup_fork_lock);
>>>+
>>> +static inline void threadgroup fork write lock(struct task struct *tsk)
>>>+{
>>> + down write(&tsk->signal->threadgroup fork lock);
>>>+
>>> +static inline void threadgroup_fork_write_unlock(struct task_struct *tsk)
>>>+{
>>> + up_write(&tsk->signal->threadgroup_fork_lock);
>>>+
>>> +#else
>>>
>>> Risky. sched.h doesn't include rwsem.h.
```

What about adding a new header file which includes rwsem.h and sched.hand then defines the new interfaces?

Er, I mean the definition of signal_struct needs rwsem.h as well, not just the threadgroup_fork_* functions. (And I suspect moving signal_struct somewhere else would give bigger problems...)

Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containe rs

> > header granularity.