Subject: Re: [RFC/PATCH 1/8]: CGroup Files: Add locking mode to cgroups control files Posted by Li Zefan on Tue, 13 May 2008 09:23:29 GMT View Forum Message <> Reply to Message menage@google.com wrote: > Different cgroup files have different stability requirements of the > cgroups framework while the handler is running; currently most > subsystems that don't have their own internal synchronization just > call cgroup lock()/cgroup unlock(), which takes the global cgroup mutex. > This patch introduces a range of locking modes that can be requested > by a control file; currently these are all implemented internally by > taking cgroup_mutex, but expressing the intention will make it simpler > to move to a finer-grained locking scheme in the future. > > Signed-off-by: Paul Menage<menage@google.com> This patch series looks good to me. I've reviewed those patches and didn't see anything wrong, except a little comments below. [..snap..] -static ssize_t cgroup_write_X64(struct cgroup *cgrp, struct cftype *cft, struct file *file.

```
const char __user *userbuf,
     size t nbytes, loff t *unused ppos)
> +
> +/**
> + * cgroup_file_lock(). Helper for cgroup read/write methods.
> + * @cgrp: the cgroup being acted on
> + * @cft: the control file being written to or read from
> + * *write: true if the access is a write access.
s/*write/@write
[..snip..]
> static ssize_t cgroup_common_file_read(struct cgroup *cgrp,
> @ @ -1518,16 +1580,21 @ @ static ssize t cgroup file read(struct f
> struct cftype *cft = __d_cft(file->f_dentry);
   struct cgroup *cgrp = __d_cgrp(file->f_dentry->d_parent);
>
> - if (!cft || cgroup is removed(cgrp))
> + if (cgroup is removed(cgrp))
```

```
return -ENODEV;
This check seems redundant now.
> - if (cft->read)
> - return cft->read(cgrp, cft, file, buf, nbytes, ppos);
> - if (cft->read_u64)
> - return cgroup_read_u64(cgrp, cft, file, buf, nbytes, ppos);
> - if (cft->read s64)
> - return cgroup_read_s64(cgrp, cft, file, buf, nbytes, ppos);
> - return -EINVAL;
> + if (cft->read) {
> + /* Raw read function - no extra processing by cgroups */
> + ssize_t retval = cgroup_file_lock(cgrp, cft, 0);
> + if (!retval)
> + retval = cft->read(cgrp, cft, file, buf, nbytes, ppos);
> + cgroup_file_unlock(cgrp, cft, 0);
> + return retval;
> + }
> + if (cft->read_u64 || cft->read_s64)
> + return cgroup_read_X64(cgrp, cft, file, buf, nbytes, ppos);
> + else
> + return -EINVAL;
> }
Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers
```