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Subject: Re: [patch -mm 0/4] mqueue namespace  
Posted by [ebiederm](#) on Fri, 20 Jun 2008 03:00:51 GMT  
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Cedric Le Goater <clg@fr.ibm.com> writes:

> Hello !  
>  
> Here's a small patchset introducing a new namespace for POSIX  
> message queues.  
>  
> Nothing really complex a part from the mqueue filesystem which  
> needed some special care

This looks stalled. I have a brainstorm that might takes a totally different perspective on things.

The only reason we don't just allow multiple mounts of mqueuefs to solve this problem is because there is a kernel syscall on the path.

If we just hard coded a mount point into the kernel and required user space to always mount mqueuefs there the problem would be solved.

hard coding a mount point is unfortunately violates the unix rule of separating mechanism and policy.

One way to fix that is to add a hidden directory to the mnt namespace. Where magic in kernel filesystems can be mounted. Only visible with a magic openat flag. Then:

```
fd = openat(AT_FDKERN, ".", O_DIRECTORY)
fchdir(fd);
umount("./mqueue", MNT_DETACH);
mount(("none", "./mqueue", "mqueue", 0, NULL);
```

Would unshare the mqueue namespace.

Implemented for plan9 this would solve a problem of how do you get access to all of it's special filesystems. As only bind mounts and remote filesystem mounts are available. For linux thinking about it might shake the conversation up a bit.

Eric

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