Subject: Re: [PATCH] proc: Do not invalidate dentries with submounts
Posted by ebiederm on Thu, 06 Dec 2007 16:05:02 GMT
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"Denis V. Lunev" <den@sw.ru> writes:

> you have changed the behavior of revalidation by shadows. I think it
> will be better to restore it and keep new one for shadows (and below)
> only, which has been done by my yesterday patch.

- I think it is better to move forward rather then back.
- The old proc dentry caching behavior is actually too aggressive, and has
  problem corner cases. Keeping the dentries when we have something mounted
  on top is a trade off that is the least of two evils.
- My change fixes the mount leak on all of /proc not just on /proc/generic.

What you did is a hack that restored the old slightly buggy behavior. Which
is fine if we can't find anything better. It is not code that is on the
path towards a /proc that properly caches it's dentries.

With the old behavior a random user space application can open a file or
a directory in /proc pinning it's dcache entry. Then the module supplying
that open file can be removed and reinserted. Until the user space application
removes reference to that /proc file all you will be able to find is the
version of the file from before /proc was removed.

That sounds like a way to trigger nasty behavior to me. I would like
to remove that possibility from the kernel if I can.

Eric