
Subject: [PATCH] proc: print more information when removing non-empty directories

Posted by [Alexey Dobriyan](#) on Mon, 11 Feb 2008 11:30:37 GMT

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This usually saves one recompile to insert similar printk like below. :)

Sample nastygram:

remove_proc_entry: removing non-empty directory '/proc/foo', leaking at least 'bar'

-----[cut here]-----

WARNING: at fs/proc/generic.c:776 remove_proc_entry+0x18a/0x200()

Modules linked in: foo(-) container fan battery dock sbs ac sbshc backlight ipv6 loop af_packet
amd_rng sr_mod i2c_amd8111 i2c_amd756 cdrom i2c_core button thermal processor

Pid: 3034, comm: rmmod Tainted: G M 2.6.25-rc1 #5

Call Trace:

```
[<ffffffff80231974>] warn_on_slowpath+0x64/0x90
[<ffffffff80232a6e>] printk+0x4e/0x60
[<ffffffff802d6c8a>] remove_proc_entry+0x18a/0x200
[<ffffffff8045cd88>] mutex_lock_nested+0x1c8/0x2d0
[<ffffffff8025f0f0>] __try_stop_module+0x0/0x40
[<ffffffff8025effd>] sys_delete_module+0x14d/0x200
[<ffffffff8045df3d>] lockdep_sys_exit_thunk+0x35/0x67
[<ffffffff8031c307>] __up_read+0x27/0xa0
[<ffffffff8045decc>] trace_hardirqs_on_thunk+0x35/0x3a
[<ffffffff8020b6ab>] system_call_after_swaps+0x7b/0x80
```

---[end trace 10ef850597e89c54]---

Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

fs/proc/generic.c | 7 ++++++-

1 file changed, 6 insertions(+), 1 deletion(-)

--- a/fs/proc/generic.c

+++ b/fs/proc/generic.c

@@ -769,7 +769,12 @@ continue_removing:

```
    if (S_ISDIR(de->mode))
        parent->nlink--;
    de->nlink = 0;
-   WARN_ON(de->subdir);
+   if (de->subdir) {
+       printk(KERN_WARNING "%s: removing non-empty directory "
+           "'%s/%s', leaking at least '%s'\n", __func__,
+           de->parent->name, de->name, de->subdir->name);
```

```
+ WARN_ON(1);  
+ }  
  if (atomic_dec_and_test(&de->count))  
    free_proc_entry(de);  
  break;
```

Subject: Re: [PATCH] proc: print more information when removing non-empty directories

Posted by [Arjan van de Ven](#) on Mon, 11 Feb 2008 15:33:37 GMT

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Alexey Dobriyan wrote:

> This usually saves one recompile to insert similar printk like below. :)

>

> Sample nastygram:

looks very useful to me!
