

Re: [PATCH] protect remove_proc_entry

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg08467.html>

- *From:* Steven Rostedt <rostedt@xxxxxxxxxxxx>
 - *Date:* Fri, 30 Dec 2005 17:09:02 -0500
-

On Fri, 2005-12-30 at 13:55 -0800, Mitchell Blank Jr wrote:

> Steven Rostedt wrote:
>> I've added a global remove_proc_lock to protect this section of code. I
>> was going to add a lock to proc_dir_entry so that the locking is only
>> cut down to the same parent, but since this function is called so
>> infrequently, why waste more memory then is needed. One global lock
>> should not cause too much of a headache here.
>
> Are you sure that it's the only place where we need guard ->subdir? It
> looks like proc_lookup() and proc_readdir() use the BLK when walking that
> list, so probably the best fix would be to use that lock everywhere else
> ->subdir is touched

Good point.

God, we should be getting rid of the stupid BKL, not add more. But seeing that this is what is used to protect that list, I guess I'll add it.

I'm also assuming that interrupt context wont use this.

-- Steve

Index: linux-2.6.15-rc7/fs/proc/generic.c

```
=====
--- linux-2.6.15-rc7.orig/fs/proc/generic.c 2005-12-30 14:19:39.000000000 -0500
+++ linux-2.6.15-rc7/fs/proc/generic.c 2005-12-30 17:05:56.000000000 -0500
@@ -693,6 +693,8 @@
if (!parent && xlate_proc_name(name, &parent, &fn) != 0)
goto out;
len = strlen(fn);
+
+ lock_kernel();
for (p = &parent->subdir; *p; p=&(*p)->next ) {
if (!proc_match(len, fn, *p))
continue;
@@ -713,6 +715,7 @@
}
break;
```

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```
}  
+ unlock_kernel();  
out:  
return;  
}
```

—

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- ***Follow-Ups:***

- ◆ ***Re: [PATCH] protect remove_proc_entry***
◇ *From: Steven Rostedt*

- ***References:***

- ◆ ***[Question] race condition with remove_proc_entry***
◇ *From: Steven Rostedt*
- ◆ ***[PATCH] protect remove_proc_entry***
◇ *From: Steven Rostedt*
- ◆ ***Re: [PATCH] protect remove_proc_entry***
◇ *From: Mitchell Blank Jr*

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