Subject: [PATCH] Fix leaks on /proc/{*/sched, sched_debug, timer_list, timer_stats}
Posted by Alexey Dobriyan on Tue, 17 Jul 2007 12:25:11 GMT
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On every open/close one struct seq_operations leaks.
Kudos to /proc/slab_allocators.

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

 fs/proc/base.c | 2 +-
 kernel/sched_debug.c | 2 +-
 kernel/time/timer_list.c | 2 +-
 kernel/time/timer_stats.c | 2 +-
 4 files changed, 4 insertions(+), 4 deletions(-)

--- a/fs/proc/base.c
+++ b/fs/proc/base.c
@@ -926,7 +926,7 @@ static const struct file_operations proc_pid_sched_operations = {
  .read = seq_read,
  .write = sched_write,
  .llseek = seq_lseek,
- .release = seq_release,
+ .release = single_release,
 };

 #endif
--- a/kernel/sched_debug.c
+++ b/kernel/sched_debug.c
@@ -200,7 +200,7 @@ static struct file_operations sched_debug_fops = {
  .open = sched_debug_open,
  .read = seq_read,
  .llseek = seq_lseek,
- .release = seq_release,
+ .release = single_release,
 };

 static int __init init_sched_debug_procfs(void)
--- a/kernel/time/timer_list.c
+++ b/kernel/time/timer_list.c
@@ -267,7 +267,7 @@ static struct file_operations timer_list_fops = {
  .open = timer_list_open,
  .read = seq_read,
  .llseek = seq_lseek,
- .release = seq_release,
+ .release = single_release,
 };

```
 static int __init init_timer_list_procfs(void)
--- a/kernel/time/timer_stats.c
+++ b/kernel/time/timer_stats.c
@@ -399,7 +399,7 @@ static struct file_operations tstats_fops = {
  .read  = seq_read,
  .write  = tstats_write,
  .llseek  = seq_lseek,
- .release = seq_release,
+ .release = single_release,
 };

 void __init init_timer_stats(void)
```

Subject: Re: [PATCH] Fix leaks on /proc/{*/sched,sched_debug,timer_list,timer_stats}
Posted by Ingo Molnar on Tue, 17 Jul 2007 12:36:10 GMT
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* Alexey Dobriyan <adobriyan@sw.ru> wrote:

> On every open/close one struct seq_operations leaks.
> Kudos to /proc/slab_allocators.
>
> Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>

ouch ...

Acked-by: Ingo Molnar <mingo@elte.hu>

-stable material too, as far as timer_info/stats goes.

> - .release = seq_release,
> + .release = single_release,

i think seq_release() definitely needs to grow a WARN_ON() if it's being used on an inode that was opened via single_open(). This bug is so easily committed, and nothing but a small leak reminds us on it.

 Ingo

Subject: [PATCH] Fix leak on /proc/lockdep_stats
Posted by Alexey Dobriyan on Tue, 17 Jul 2007 12:57:36 GMT
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On Tue, Jul 17, 2007 at 02:36:10PM +0200, Ingo Molnar wrote:

> * Alexey Dobriyan <adobriyan@sw.ru> wrote:
>
> > On every open/close one struct seq_operations leaks.
> > Kudos to /proc/slab_allocators.
> >
> > Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>
>
> ouch ...
>
> Acked-by: Ingo Molnar <mingo@elte.hu>
>
> -stable material too, as far as timer_info/stats goes.
>
> > -	.release	= seq_release,
> > +	.release	= single_release,
>
> i think seq_release() definitely needs to grow a WARN_ON() if it's being
> used on an inode that was opened via single_open(). This bug is so
> easily committed, and nothing but a small leak reminds us on it.

Yeah, I'll try to come up with something clean.

Meanwhile full single_open() audit revealed one more such leak.
The rest seems OK.

[PATCH] Fix leak on /proc/lockdep_stats

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

 kernel/lockdep_proc.c | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

--- a/kernel/lockdep_proc.c
+++ b/kernel/lockdep_proc.c
@@ -339,7 +339,7 @@ static const struct file_operations proc_lockdep_stats_operations = {
  .open = lockdep_stats_open,
  .read = seq_read,
  .llseek = seq_lseek,
- .release = seq_release,
+ .release = single_release,
 };

 static int __init lockdep_proc_init(void)

Subject: Re: [PATCH] Fix leaks on

/proc/{*/sched,sched_debug,timer_list,timer_stats}
Posted by Andrew Morton on Wed, 18 Jul 2007 00:53:46 GMT
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On Tue, 17 Jul 2007 14:36:10 +0200
Ingo Molnar <mingo@elte.hu> wrote:

>
> * Alexey Dobriyan <adobriyan@sw.ru> wrote:
>
> > On every open/close one struct seq_operations leaks.
> > Kudos to /proc/slab_allocators.
> >
> > Signed-off-by: Alexey Dobriyan <adobriyan@sw.ru>
>
> ouch ...
>
> Acked-by: Ingo Molnar <mingo@elte.hu>
>
> -stable material too, as far as timer_info/stats goes.

So I have a patch which will not fully apply to -stable.

Sorry, but I can't be bothered splitting it up. Greg, Chris: please just
apply the bits which apply and drop the other bits if that's OK.

Subject: Re: [PATCH] Fix leaks on
/proc/{*/sched,sched_debug,timer_list,timer_stats}
Posted by Chris Wright on Wed, 18 Jul 2007 01:28:39 GMT
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* Andrew Morton (akpm@linux-foundation.org) wrote:
> Sorry, but I can't be bothered splitting it up. Greg, Chris: please just
> apply the bits which apply and drop the other bits if that's OK.

Yup