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Subject: Re: [PATCH v4 08/14] res\_counter: return amount of charges after res\_counter\_uncharge

Posted by [Michal Hocko](#) on Tue, 09 Oct 2012 15:08:45 GMT

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On Mon 08-10-12 14:06:14, Glauber Costa wrote:

[...]

```
> diff --git a/kernel/res_counter.c b/kernel/res_counter.c
```

```
> index ad581aa..7b3d6dc 100644
```

```
> --- a/kernel/res_counter.c
```

```
> +++ b/kernel/res_counter.c
```

```
> @@ -86,33 +86,39 @@ int res_counter_charge_nofail(struct res_counter *counter, unsigned long val,
```

```
>     return __res_counter_charge(counter, val, limit_fail_at, true);
```

```
> }
```

```
>
```

```
> -void res_counter_uncharge_locked(struct res_counter *counter, unsigned long val)
```

```
> +u64 res_counter_uncharge_locked(struct res_counter *counter, unsigned long val)
```

```
> {
```

```
>     if (WARN_ON(counter->usage < val))
```

```
>         val = counter->usage;
```

```
>
```

```
>     counter->usage -= val;
```

```
> + return counter->usage;
```

```
> }
```

```
>
```

```
> -void res_counter_uncharge_until(struct res_counter *counter,
```

```
> -     struct res_counter *top,
```

```
> -     unsigned long val)
```

```
> +u64 res_counter_uncharge_until(struct res_counter *counter,
```

```
> +     struct res_counter *top,
```

```
> +     unsigned long val)
```

```
> {
```

```
>     unsigned long flags;
```

```
>     struct res_counter *c;
```

```
> + u64 ret = 0;
```

```
>
```

```
>     local_irq_save(flags);
```

```
>     for (c = counter; c != top; c = c->parent) {
```

```
> +     u64 r;
```

```
>         spin_lock(&c->lock);
```

```
> -     res_counter_uncharge_locked(c, val);
```

```
> +     r = res_counter_uncharge_locked(c, val);
```

```
> +     if (c == counter)
```

```
> +         ret = r;
```

```
>         spin_unlock(&c->lock);
```

```
>     }
```

```
>     local_irq_restore(flags);
```

```
> + return ret;
```

As I have already mentioned in my previous feedback this is certainly not atomic as you the lock protects only one group in the hierarchy. How is the return value from this function supposed to be used?

--

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