

Subject: Re: [PATCH 8/8] Re-enable msgmni automatic recomputing msgmni if set to negative

Posted by [akpm](#) on Mon, 11 Feb 2008 20:27:48 GMT

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On Mon, 11 Feb 2008 15:16:54 +0100

Nadia.Derbey@bull.net wrote:

> [PATCH 08/08]

>

> This patch is the enhancement as asked for by Yasunori: if msgmni is set to

> a negative value, register it back into the ipcns notifier chain.

>

> A new interface has been added to the notification mechanism:

> notifier\_chain\_cond\_register() registers a notifier block only if not already

> registered. With that new interface we avoid taking care of the states changes

> in procfs.

>

> ...

>

> static int proc\_ipc\_callback\_dointvec(ctl\_table \*table, int write,

> struct file \*filp, void \_\_user \*buffer, size\_t \*lenp, loff\_t \*ppos)

> {

> + struct ctl\_table ipc\_table;

> size\_t lenp\_bef = \*lenp;

> int rc;

>

> - rc = proc\_ipc\_dointvec(table, write, filp, buffer, lenp, ppos);

> + memcpy(&ipc\_table, table, sizeof(ipc\_table));

> + ipc\_table.data = get\_ipc(table);

> +

> + rc = proc\_dointvec(&ipc\_table, write, filp, buffer, lenp, ppos);

>

> if (write && !rc && lenp\_bef == \*lenp)

> - /\*

> - \* Tunable has successfully been changed from userland:

> - \* disable its automatic recomputing.

> - \*/

> - unregister\_ipcns\_notifier(current->nsproxy->ipc\_ns);

> + tunable\_set\_callback(\*((int \*) (ipc\_table.data)));

>

> return rc;

> }

> @@ -119,12 +142,14 @@ static int sysctl\_ipc\_registered\_data(ct

> rc = sysctl\_ipc\_data(table, name, nlen, oldval, oldlenp, newval,

> newlen);

>

> - if (newval && newlen && rc > 0)

```
> + if (newval && newlen && rc > 0) {  
>   /*  
>    * Tunable has successfully been changed from userland:  
>    * disable its automatic recomputing.  
>    * Tunable has successfully been changed from userland  
>    */  
>   unregister_ipcns_notifier(current->nsproxy->ipc_ns);  
>   int *data = get_ipc(table);  
>   +  
>   + tunable_set_callback(*data);  
>   + }  
>  
>   return rc;  
> }
```

hm, what's happening here? We take a local copy of the caller's `ctl_table` and then pass that into `proc_dointvec()`. Is that as hacky as it seems??

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