

Re: [PATCH] call drv->shutdown at rmmmod

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Date: 08/14/03

Date: Thu, 14 Aug 2003 09:47:33 -0700
To: ebiederm@xmission.com (Eric W. Biederman)

On 14 Aug 2003 10:26:47 -0600 ebiederm@xmission.com (Eric W. Biederman) wrote:

| Patrick Mochel <mochel@osdl.org> writes:

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| >> At the kexec BOF at OSDL there was some discussion on calling the
| >> device shutdown method at module remove time, in addition to calling
| >> it during reboot. The driver was the observation that the primary
| >> source of problems in booting linux from linux are drivers with bad
| >> or missing drv->shutdown() routines. The hope is this will increase
| >> the testing so people can get it right and kexec can become more
| >> useful. In addition to making normal reboots more reliable.

| >>

| >> The following patch is an implementation of that idea it calls drv->shutdown()

| >

| >> before calling drv->remove(). If drv->shutdown() is implemented.

| >

| > I like the idea behind the patch, but we shouldn't be calling it
| > unconditionally. We're bound to run into some surprises that could really
| > kill us this late in the 2.6 game.

| >

| > I do think it should go in, as long as there is a flag telling the core
| > whether or not to call shutdown for that particular device. I think it
| > could also be extended to include a power state, so the core could suspend
| > the device before removing the module.

|

| Assuming the device driver can get a device out of the suspend state
| when the module is loaded. This has been one of the biggest problem areas
| with the e100 driver. It's init code cannot bring the device out of a low
| power state.

|

| > The default would always be 'Do Nothing', but with a per-device sysfs
| > file, a developer/user/gui app could be used to set the policy from user
| > space.

|

| Possibly. But this is getting complicated. And while I do support things
| being complicated enough to handle the problem this part of the API feels
| like it is excessively complicated. Which is why I was trying to simply

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| it by always calling shutdown on a device before we remove it.

Can it just be a (kernel hacking/debug) CONFIG_DRIVER_SHUTDOWN build option?

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~Randy

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