Subject: Re: namespace support requires network modules to say "GPL" Posted by Ben Greear on Tue, 04 Dec 2007 18:57:01 GMT View Forum Message <> Reply to Message

Eric W. Biederman wrote:

> Ben Greear <greearb@candelatech.com> writes:

> >

>>> Regardless of infringement it is incompatible with a complete network
>> namespace implementation. Further it sounds like the module you are
>> describing defines a kernel ABI without being merged and hopes that
>>> ABI will still be supportable in the future. Honestly I think doing so
>>> is horrible code maintenance policy.

>>>

>>>

>> I don't mind if the ABI changes, so long as I can still use something similar.

>

> It has occurred to me that I am seeing an implication here that may in fact not
 > exist.

>

> My impression of dev\_get\_by\_xxxx is that the function is only able to be used

> sanely when being part of the definition of a kernel/userspace interface. With

> the further assumption on my part that you need to define a new instance of

> dev\_get\_by\_xxxx

>

> It has just occurred to me that it is possible to reuse the SIOCBRADDIF

> and SIOCBRDELIF for that same purpose without defining a new kernel/userspace

> interface.

>

> What and how are you using dev\_get\_by\_xxx?

>

I have a module that has a collection of 2-port bridges. These bridges are used for emulation

purposes (somewhat similar to netem's feature set). Each bridge is logically independent

of the others. To set up a bridge, I do something like:

echo add\_my\_bridge my\_br1 eth0 eth1 > /proc/net/foo/config

Inside the module, it reads "eth0" and "eth1" and needs to find those devices (ie, dev\_get\_by\_name). It then registers to receive all pkts from eth1 and transmit them on eth0, and vice versa.

If it would not require GPL symbols, I have no problem changing my API to be something like:

echo add\_my\_bridge my\_br1 eth0 namespaceX eth1 namespaceY > /proc/net/foo/config

I am using procfs so that I don't have to define any new 'official' kernel ABI, as that would more likely be a derivative work, and is a pain to keep up to date with changing kernels anyway...

Personally, it seems useful for my module to be able to have eth0 in one namespace

and eth1 in another, but I won't complain if they both have to be in the same namespace

or even just in the default namespace due to GPL symbol issues.

Thanks, Ben

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