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Subject: Re: 2.6.20-lxc8: kernel panic with af\_unix as module  
Posted by [ebiederm](#) on Thu, 03 May 2007 23:32:03 GMT  
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Pierre Peiffer <[pierre.peiffer@bull.net](mailto:pierre.peiffer@bull.net)> writes:

> Hi,  
>  
> I'm trying to test this kernel with network namespace compiled. But I have a  
> kernel panic (see below) during the boot when loading the module unix.ko (in  
> af\_unix\_init).  
>  
> After some search, it seems that specifying a particular section for some  
> variables is incompatible with using them in a module.

Bother. I thought I had that all implemented properly but it looks like  
I have missed something.

> In my case, when registering per\_net\_\_unix\_root\_table (in function  
> unix\_sysctl\_register in file net/unix/sysctl\_net\_unix.c), it tries to access the  
> child (which is per\_net\_\_unix\_net\_table) at the address 0x00000080 which is the  
> address of this symbol in the section .data.pernet of the module object, but not  
> a virtual address.

Hmm. It should be a global offset in the .data.pernet section. If it  
is just for that module I clearly have a problem.

> When compiling this in the kernel, there is no problem...  
> As I'm not familiar with the use of some sections in ELF format, I don't know  
> how to correct this...  
>  
> By the way, just for my knowledge, what is the advantage of specifying a  
> particular section (.data.pernet in this case) for some variables ?

So you have one instance for each network namespace. Currently I think  
I'm using the concept a little too much requiring a large page  
allocation for all of the network namespace state. But otherwise it  
seems to work fairly well.

Thanks. I will go back and look but I don't plan on back porting  
anything for 2.6.20. I'm lazy and do not have enough hours in the  
day. :)

Eric

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