
Subject: 2.6.20-lxc8: kernel panic with af_unix as module
Posted by [Pierre Peiffer](#) on Thu, 03 May 2007 12:13:44 GMT
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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.

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.

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 ?

Thanks.

Here is the panic:

```
INIT: version 2.86 booting
NET: Registered protocol family 1
BUG: unable to handle kernel NULL pointer dereference at virtual address 00000080
printing eip:
c0123bae
*pde = 00000000
Oops: 0000 [#1]
PREEMPT SMP
Modules linked in: unix ide_disk ide_core ahci libata sd_mod scsi_mod ehci_hcd
uhci_hcd usbcore
CPU: 3
EIP: 0060:[<c0123bae>] Not tainted VLI
EFLAGS: 00010282 (2.6.20-lxc8 #4)
EIP is at sysctl_net_table_fixup+0x7e/0xa0
eax: 37a65e00 ebx: 000000a8 ecx: ffffffff edx: 00000080
esi: 00000080 edi: 37a65e00 ebp: f7ab1f00 esp: f7ab1ee0
ds: 007b es: 007b ss: 0068
Process modprobe (pid: 404, ti=f7ab0000 task=c232aa90 task.ti=f7ab0000)
Stack: f7e2dd08 37a65e00 37a65e00 f7ab1f00 c011d61b f7e2dd08 00000080 37a65e00
```

f7ab1f28 c0123bab c0329260 00000080 00000000 00000000 00000000 f7e2c0a0
37a65e00 c03c62a0 f7ab1f40 c01241cd f7e2dce0 c03c7f30 37a65e00 08060588

Call Trace:

[<c010414a>] show_trace_log_lvl+0x1a/0x30
[<c0104211>] show_stack_log_lvl+0xb1/0xe0
[<c0104409>] show_registers+0x1c9/0x310
[<c010466c>] die+0x11c/0x250
[<c02c4213>] do_page_fault+0x2c3/0x5c0
[<c02c27c4>] error_code+0x7c/0x84
[<c0123bab>] sysctl_net_table_fixup+0x7b/0xa0
[<c01241cd>] register_net_sysctl_table+0x2d/0x70
[<f885b360>] unix_sysctl_register+0x20/0x30 [unix]
[<f885859c>] unix_net_init+0x2c/0x40 [unix]
[<c0271024>] register_pernet_operations+0x34/0xc0
[<c027129c>] register_pernet_subsys+0x1c/0x30
[<f882b04c>] af_unix_init+0x4c/0x54 [unix]
[<c013bbc1>] sys_init_module+0x91/0x160
[<c010313c>] syscall_call+0x7/0xb

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Code: f8 89 43 e0 89 f8 e8 d2 ee ff ff 8b 53 fc 89 43 f8 89 f8 e8 c5 ee ff ff 85
f6 89 43 fc 74 09 89 f2 89 f8 e8 85 ff ff ff 83 c3 28 <8b>
43 d8 85 c0 75 8b 8b 73 dc 85 f6 75 84 83 c4 14 5b 5e 5f 5d
EIP: [<c0123bae>] sysctl_net_table_fixup+0x7e/0xa0 SS:ESP 0068:f7ab1ee0

Welcome to Fedora Core

Press 'l' to enter interactive startup.

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Pierre

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