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commit [13daafe1e209b03e9bda16ff2bd2b2da145a139b](#) (patch)
tree [e5a9d7871a897772a2a717a9484373854a69485a](#)
parent [6db49c4532fd920e6d3585cec0c9df9f6d28b590](#) (diff)
download [linux-13daafe1e209b03e9bda16ff2bd2b2da145a139b.tar.gz](#)

diff options

context: ▼
space: ▼
mode: ▼

scsi: core: Remove the /proc/scsi/\${proc_name} directory earlier

[Upstream commit fc663711b94468f4e1427ebe289c9f05669699c9]

Remove the /proc/scsi/\${proc_name} directory earlier to fix a race condition between unloading and reloading kernel modules. This fixes a bug introduced in 2009 by commit 77c019768f06 ("[SCSI] fix /proc memory leak in the SCSI core").

Fix the following kernel warning:

proc_dir_entry 'scsi/scsi_debug' already registered
WARNING: CPU: 19 PID: 27986 at fs/proc/generic.c:376 proc_register+0x27d/0x2e0
Call Trace:

```
proc_mkdir+0xb5/0xe0
scsi_proc_hostdir_add+0xb5/0x170
scsi_host_alloc+0x683/0x6c0
sdebug_driver_probe+0x6b/0x2d0 [scsi_debug]
really_probe+0x159/0x540
__driver_probe_device+0xdc/0x230
driver_probe_device+0x4f/0x120
__device_attach_driver+0xef/0x180
bus_for_each_drv+0xe5/0x130
__device_attach+0x127/0x290
device_initial_probe+0x17/0x20
bus_probe_device+0x110/0x130
device_add+0x673/0xc80
device_register+0x1e/0x30
sdebug_add_host_helper+0x1a7/0x3b0 [scsi_debug]
scsi_debug_init+0x64f/0x1000 [scsi_debug]
do_one_initcall+0xd7/0x470
do_init_module+0xe7/0x330
load_module+0x122a/0x12c0
__do_sys_finit_module+0x124/0x1a0
__x64_sys_finit_module+0x46/0x50
do_syscall_64+0x38/0x80
entry_SYSCALL_64_after_hwframe+0x46/0xb0
```

Link: <https://lore.kernel.org/r/20230210205200.36973-3-bvanassche@acm.org>

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Fixes: 77c019768f06 ("[SCSI] fix /proc memory leak in the SCSI core")

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Diffstat

-rw-r--r-- drivers/scsi/hosts.c 2

1 files changed, 2 insertions, 0 deletions

diff --git a/drivers/scsi/hosts.c b/drivers/scsi/hosts.c

index b3d6ea92b4f7c0..2ffc2e15d822b2 100644

--- a/drivers/scsi/hosts.c

+++ b/drivers/scsi/hosts.c

```
@@ -178,6 +178,7 @@ void scsi_remove_host(struct Scsi_Host *shost)
    scsi_forget_host(shost);
    mutex_unlock(&shost->scan_mutex);
    scsi_proc_host_rm(shost);
+   scsi_proc_hostdir_rm(shost->hostt);

    spin_lock_irqsave(shost->host_lock, flags);
    if (scsi_host_set_state(shost, SHOST_DEL))
@@ -329,6 +330,7 @@ static void scsi_host_dev_release(struct device *dev)
    struct Scsi_Host *shost = dev_to_shost(dev);
    struct device *parent = dev->parent;

+   /* In case scsi_remove_host() has not been called. */
    scsi_proc_hostdir_rm(shost->hostt);

    /* Wait for functions invoked through call_rcu(&shost->rcu, ...) */
```