



author Bart Van Assche <bvanassche@acm.org> 2023-02-10 12:52:00 -0800  
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2023-03-17 08:48:52 +0100  
commit [e471e928de97b00f297ad1015cc14f9459765713](#) (patch)  
tree [e0dd1d4feab4d11ac9e4b31a84f8c6ad3a92f8b5](#)  
parent [463ae58d7c8051caefbcbcdc9a78f973ac8cc81b](#) (diff)  
download [linux-e471e928de97b00f297ad1015cc14f9459765713.tar.gz](#)

**diff options**

context:

3 ▼

space:

include ▼

mode:

unified ▼

**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>

Cc: Alan Stern <stern@rowland.harvard.edu>

Cc: Yi Zhang <yi.zhang@redhat.com>

Cc: stable@vger.kernel.org

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

Reported-by: Yi Zhang <yi.zhang@redhat.com>

Signed-off-by: Bart Van Assche <bvanassche@acm.org>

Signed-off-by: Martin K. Petersen <martin.petersen@oracle.com>

Signed-off-by: Sasha Levin <sashal@kernel.org>

## 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 0165dad8030014..28b201c4432670 100644**

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

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

```
@@ -180,6 +180,7 @@ 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))
@@ -321,6 +322,7 @@ 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(&scmd->rcu, ...) */
```