

/proc/scsi/sg/debug and timeouts

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Hello,

I've got a question regarding the values reported by /proc/scsi/sg/debug. I'm currently troubleshooting a SCSI tape problem — our backup software sometimes gets stuck and never releases the drive. I see some messages in dmesg about reservation conflicts, which leads me to believe that some other process is trying to grab the drive when it's busy doing something else...?

Assuming this theory is correct, I cat /proc/scsi/sg/debug and find this:

```
sg]# cat debug
dev_max(currently)=64 max_active_device=61 (origin 1)
def_reserved_size=65536

                device=sg56 scsi1 chan=0 id=0 lun=2 em=0
                sg_tablesize=255 excl=0

FD(1): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=324 t_o/elap=1800000/86235844ms sgat=0 op=0x4d
FD(2): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=324 t_o/elap=1800000/59911955ms sgat=0 op=0x4d
FD(3): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=324 t_o/elap=1800000/23683541ms sgat=0 op=0x4d
FD(4): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
act: id=0 blen=0 t_o/elap=1800000/21087406ms sgat=0 op=0x16
FD(5): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=324 t_o/elap=1800000/15882555ms sgat=0 op=0x4d
FD(6): timeout=1800000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=0
rb>> act: id=0 blen=324 t_o/elap=1800000/4728576ms sgat=0 op=0x4d
FD(7): timeout=600000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=96 t_o/elap=600000/3465563ms sgat=0 op=0x12
```

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```
FD(8): timeout=60000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=1 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=36 t_o/elap=20000/2543704ms sgat=0 op=0x12
act: id=0 blen=36 t_o/elap=20000/2518259ms sgat=0 op=0x12
FD(9): timeout=60000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=1 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=36 t_o/elap=60000/1605323ms sgat=0 op=0x12
FD(10): timeout=600000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=0 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=96 t_o/elap=600000/1574035ms sgat=0 op=0x12
FD(11): timeout=60000ms bufflen=65536 (res)sgat=2 low_dma=0
cmd_q=1 f_packid=0 k_orphan=0 closed=1
rb>> act: id=0 blen=36 t_o/elap=60000/1548383ms sgat=0 op=0x12
```

So, I see that of all of those commands, only '6' corresponds to an open file descriptor (the backup process, which is sleeping, waiting for a read on the tape drive's sg device to return), and I also see that '4' is a closed file descriptor with an active "0x16 RESERVE". However, several of these show 'elapsed' times that go beyond their respective timeout values.

I'm running: Red Hat Enterprise Linux AS release 4 (Nahant Update 6)
Kernel: 2.6.9-67.ELsmp

Questions:

- Aren't the commands that are beyond their timeouts supposed to expire somehow?
- Is there a way for me to get some information about which process created '4'?

Thank you,

Damian

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