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switch

Steffen Klassert's ipsec-next networking tree

Steffen Klassert

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commit 3f4093e2bf4673f218c0bf17d8362337c400e77b (patch)
tree b8401e7acce01f755568d76eb4242bb6c9fed524
parent 7e4babffa6f340a74c820d44d44d16511e666424 (diff)
download ipsec-next-3f4093e2bf4673f218c0bf17d8362337c400e77b.tar.gz

diff options

context: 3 ▾

space: include ▾

mode: unified ▾

atm: idt77252: fix use-after-free bugs caused by tst_timer

There are use-after-free bugs caused by `tst_timer`. The root cause is that there are no functions to stop `tst_timer` in `idt77252_exit()`. One of the possible race conditions is shown below:

```
(thread 1)      |      (thread 2)
                  |      idt77252_init_one
                  |      init_card
                  |      fill_tst
                  |      mod_timer(&card->tst_timer, ...)
idt77252_exit    |      (wait a time)
                  |      tst_timer
                  |
                  |      ...
kfree(card) // FREE |      card->soft_tst[e] // USE
```

The `idt77252_dev` is deallocated in `idt77252_exit()` and used in timer handler.

This patch adds `del_timer_sync()` in `idt77252_exit()` in order that the timer handler could be stopped before the `idt77252_dev` is deallocated.

Fixes: 1da177e4c3f4 ("Linux-2.6.12-rc2")

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Diffstat

```
-rw-r--r-- drivers/atm/idt77252.c 1
```

1 files changed, 1 insertions, 0 deletions

diff --git a/drivers/atm/idt77252.c b/drivers/atm/idt77252.c

index 81ce81a75fc67..681cb3786794d 100644

--- a/drivers/atm/idt77252.c

+++ b/drivers/atm/idt77252.c

```
@@ -3752,6 +3752,7 @@ static void __exit idt77252_exit(void)
     card = idt77252_chain;
     dev = card->atmdev;
     idt77252_chain = card->next;
+    del_timer_sync(&card->tst_timer);

     if (dev->phy->stop)
         dev->phy->stop(dev);
```