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|---|---|---|
| author | Shang XiaoJing <shangxiaojing@huawei.com> | 2022-11-17 09:23:45 +0800 |
| committer | Greg Kroah-Hartman <gregkh@linuxfoundation.org> | 2022-11-26 09:27:41 +0100 |
| commit | 0e5baaa181a052d968701bb9c5b1d55847f00942 (patch) | |
| tree | 72b15aef627a4044d4edd39d5a603760a06d4623 | |
| parent | d2d1499f68449cbe8a9d093bb3a14efade0e8d03 (diff) | |
| download | linux-0e5baaa181a052d968701bb9c5b1d55847f00942.tar.gz | |

**diff options**

context: 3

space: include

mode: unified

## tracing: Fix memory leak in test_gen_synth_cmd() and test_empty_synth_event()

```
commit a4527fef9afe5c903c718d0cd24609fe9c754250 upstream.

test_gen_synth_cmd() only free buf in fail path, hence buf will leak
when there is no failure. Add kfree(buf) to prevent the memleak. The
same reason and solution in test_empty_synth_event().

unreferenced object 0xffff8881127de000 (size 2048):
  comm "modprobe", pid 247, jiffies 4294972316 (age 78.756s)
  hex dump (first 32 bytes):
    20 67 65 6e 5f 73 79 6e 74 68 5f 74 65 73 74 20   gen_synth_test
    20 70 69 64 5f 74 20 6e 65 78 74 5f 70 69 64 5f   pid_t next_pid_
  backtrace:
    [<000000004254801a>] kmalloc_trace+0x26/0x100
    [<0000000039eb1cf5>] 0xffffffffa00083cd
    [<000000000e8c3bc8>] 0xffffffffa00086ba
    [<00000000c293d1ea>] do_one_initcall+0xdb/0x480
    [<00000000aa189e6d>] do_init_module+0x1cf/0x680
    [<00000000d513222b>] load_module+0x6a50/0x70a0
    [<000000001fd4d529>] __do_sys_finit_module+0x12f/0x1c0
    [<00000000b36c4c0f>] do_syscall_64+0x3f/0x90
    [<00000000bbf20cf3>] entry_SYSCALL_64_after_hwframe+0x63/0xcd
unreferenced object 0xffff8881127df000 (size 2048):
  comm "modprobe", pid 247, jiffies 4294972324 (age 78.728s)
  hex dump (first 32 bytes):
    20 65 6d 70 74 79 5f 73 79 6e 74 68 5f 74 65 73   empty_synth_tes
    74 20 20 70 69 64 5f 74 20 6e 65 78 74 5f 70 69  t  pid_t next_pi
  backtrace:
    [<000000004254801a>] kmalloc_trace+0x26/0x100
    [<00000000d4db9a3d>] 0xffffffffa0008071
    [<00000000c31354a5>] 0xffffffffa00086ce
    [<00000000c293d1ea>] do_one_initcall+0xdb/0x480
    [<00000000aa189e6d>] do_init_module+0x1cf/0x680
    [<00000000d513222b>] load_module+0x6a50/0x70a0
    [<000000001fd4d529>] __do_sys_finit_module+0x12f/0x1c0
    [<00000000b36c4c0f>] do_syscall_64+0x3f/0x90
    [<00000000bbf20cf3>] entry_SYSCALL_64_after_hwframe+0x63/0xcd

Link: https://lkml.kernel.org/r/20221117012346.22647-2-shangxiaojing@huawei.com

Cc: <mhiramat@kernel.org>
Cc: <zanussi@kernel.org>
```

Cc: <fengguang.wu@intel.com>
Cc: stable@vger.kernel.org
Fixes: 9fe41efaca08 ("tracing: Add synth event generation test module")
Signed-off-by: Shang XiaoJing <shangxiaojing@huawei.com>
Signed-off-by: Steven Rostedt (Google) <rostedt@goodmis.org>
Signed-off-by: Greg Kroah-Hartman <gregkh@linuxfoundation.org>

**Diffstat**

-rw-r--r-- kernel/trace/synth_event_gen_test.c 16

1 files changed, 6 insertions, 10 deletions

```
diff --git a/kernel/trace/synth_event_gen_test.c b/kernel/trace/synth_event_gen_test.c
index 0b15e975d2c2c3..8d77526892f45f 100644
--- a/kernel/trace/synth_event_gen_test.c
+++ b/kernel/trace/synth_event_gen_test.c
@@ -120,15 +120,13 @@ static int __init test_gen_synth_cmd(void)

        /* Now generate a gen_synth_test event */
        ret = synth_event_trace_array(gen_synth_test, vals, ARRAY_SIZE(vals));
- out:
+ free:
+       kfree(buf);
        return ret;
  delete:
        /* We got an error after creating the event, delete it */
        synth_event_delete("gen_synth_test");
- free:
-       kfree(buf);
-
-       goto out;
+       goto free;
 }

 /*
@@ -227,15 +225,13 @@ static int __init test_empty_synth_event(void)

        /* Now trace an empty_synth_test event */
        ret = synth_event_trace_array(empty_synth_test, vals, ARRAY_SIZE(vals));
- out:
+ free:
+       kfree(buf);
        return ret;
  delete:
        /* We got an error after creating the event, delete it */
        synth_event_delete("empty_synth_test");
- free:
-       kfree(buf);
-
-       goto out;
+       goto free;
 }

 static struct synth_field_desc create_synth_test_fields[] = {
```