

3.0基站产品测试 - 错误 #4460

RLC UM模式下行超流量灌包过程中出现DU COREDUMP

2025-11-19 10:52 - 郭 锁奇

状态:	进行中	开始日期:	2025-11-19
优先级:	一般	计划完成日期:	
指派给:	韩 伟	% 完成:	0%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
问题归属:	DU	目标解决问题版本:	Rel_3.1.4
发现问题版本:	Rel_3.1.4		
描述			
Rel_3.1.4_Pre1T1版本，RLC UM模式下行超流量灌包过程中出现DU COREDUMP问题。			

历史记录

#1 - 2025-11-19 14:02 - 韩 伟

- 状态从新建变更为进行中

#2 - 2025-11-20 10:58 - 韩 伟

该问题core文件分析，挂在在nrrup um模式定时器删除场景。

#3 - 2025-11-20 11:12 - 韩 伟

- 文件core_stack_print.png已添加

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```
Program terminated with signal SIGSEGV, Segmentation fault.
#0 0x0000000000672180 in cmRmvCbTq (arg=arg@entry=0x7d608c2530) at /home/hw/du_push/ran/nr_hl_du/skc/cm/cm_bdy5.c:789
789 /home/hw/du_push/ran/nr_hl_du/skc/cm/cm_bdy5.c: No such file or directory.
[Current thread is 1 (Thread 0x7e0c186b70 (LWP 1259))]
(gdb) bt
#0 0x0000000000672180 in cmRmvCbTq (arg=arg@entry=0x7d608c2530) at /home/hw/du_push/ran/nr_hl_du/skc/cm/cm_bdy5.c:789
#1 0x0000000000694f64 in cmnHdlCmImr (tskInfo=0x7d681e9a30) at /home/hw/du_push/ran/nr_hl_du/skc/5gnr_cmn/cmn_gcb_hdl.c:468
#2 0x00000000007b5f70 in gnb_du::gnb_du_worker_thread_instance::process_message (this=0x7d5b229b34, p_task=<optimized out>, priority=<optimized out>)
    at /home/hw/du_push/ran/nr_hl_du/skc/du_app/gnb_mgr/build/./skc/gnb_du_worker_thread.cpp:487
#3 0x000000000075a170 in ngp::thread_pool<gnb_du::gnb_du_worker_thread_instance, ssTskInfo>::thread_worker::run (this=0x1fe7cc50)
    at /home/hw/du_push/ran/nr_hl_du/skc/du_app/gnb_mgr/build/./../../../../ngp/include/ngp_thread_pool.h:406
#4 0x00000000008d4a4 in thread_start () at /home/hw/du_push/ngp/thread/build/./skc/ngp_sys_thread.cpp:338
#5 0x00000007fb97127e4 in start_thread (arg=0x7fe8c2df7f) at pthread_create.c:486
#6 0x00000007fb934470c in thread_start () at ../sysdeps/unix/sysv/linux/aarch64/clone.S:78
```

挂死堆栈信息

#4 - 2025-11-20 11:15 - 韩 伟

- 文件core_parse.png已添加

```
(gdb) p *(CmTmrArg *) 0x7d608c2530
$3 = {
  tqCp = 0xe986d8 <cmGcb+339704>,
  tq = 0xe98638 <cmGcb+339544>,
  timers = 0x7d658718bc,
  cb = 538574264372,
  evnt = 185,
  wait = 0,
  tNum = 0 '\000',
  max = 1 '\001'
}
(gdb) p target
No symbol "target" in current context.
(gdb) f 0
#0 0x000000000672180 in cmRmvCbTq (arg=arg@entry=0x7d608c2530) at /home/hw/du_push/ran/nr_hl_du/src/cm/cm_bdy5.c:789
789 /home/hw/du_push/ran/nr_hl_du/src/cm/cm_bdy5.c: No such file or directory.
(gdb) p target
$4 = (CmTimer *) 0x7d658718bc
(gdb) p *(CmTimer *) 0x7d658718bc
$5 = {
  tmrEvnt = 125,
  tqExpire = 0,
  cb = 536870912000,
  next = 0x7d5b61a3bc,
  prev = 0x5b98e8bc,
  ent2bUpd = 0 '\000',
  entIdx = 6
}
(gdb) p *(CmTimer *) 0x7d5b61a3bc
$6 = {
  tmrEvnt = 185,
  tqExpire = 1475796,
  cb = 538404037428,
  next = 0x0,
  prev = 0x7d658718bc,
  ent2bUpd = 0 '\000',
  entIdx = 6
}
(gdb) p *(CmTimer *) 0x5b98e8bc
Cannot access memory at address 0x5b98e8bc
```

挂死原因：地址异常

挂死因为定时器节点内存异常

#5 - 2025-11-20 11:18 - 韩伟

通过对现有代码梳理，修改前nrup定时器实现机制存在明显问题，在rab释放时，通过发送消息停止定时器，这种机制存在明显的滞后，很容易出现内存释放后已经被其他点申请并使用，导致内存发生变化，滞后的操作再去使用该内存就会挂死。

#6 - 2025-11-20 11:19 - 韩伟

针对以上不合理机制，已进行代码修改并合并。

文件

core_stack_print.png	33.6 KB	2025-11-20	韩伟
core_stack_print.png	33.6 KB	2025-11-20	韩伟
core_parse.png	42.2 KB	2025-11-20	韩伟