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SEGV in function lec104_Deal_I #4



⊙ Closed luckyzfl opened this issue on Mar 17, 2019 · 0 comments

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luckyzfl commented on Mar 17, 2019 • edited •
Hello. I built protocol IEC104 on my ubuntu16.04 machine with AddressSanitizer(export CFLAGS="-g -fsanitize=address" CXXFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" before
make)
And I use prenny desock tool to build channels socket communication to the console.
But when I use the following data (here in hexadecimal format for easy understanding but must be inputted as binary format file) as the input to the server TCP socket 10000, there will be a SEGV
during the running.
68:87:00:21:87:00:81:00
The way I built iec104_monitor is as you sad here, just cut the main function to the bottom in ./test/main.c and change the route of source files in ./test/Makefile.
The command line is as follows:
LD_PRELOAD="/usr/lib/x86_64-linux-gnu/libasan.so.2:/root/preeny/x86_64-linux-gnu/desock.so" ./iec104_monitor -m server -n 1 < ./test_input
/usr/lib/x86_64-linux-gnu/libasan.so.2 is the lib of asan,
/root/preeny/x86_64-linux-gnu/desock.so is the lib of preeny desock
 ./test_input is the binary format file which contains the test input as mentioned above in hexadecimal format for easy understanding.
The runtime error information is:
  Register "Linux" IEC104 Success, < HuiXing 2014-2015 > ... mode :(0), port: (0), ip: (), station num: (1)
  Iec104 Server Mode
  Iec104 Socket Ok(10000) !
Iec104 Bind Ok(10000) !
  Iec104 Listen Ok(10000)
Accept ok!
  [DumpHEX]Length:8
   68:87:00:21:87:00:81:00
  -Iex104_Receive-,Frame Type I
Receive Pakage I(4224,67), Send(0,0)
  ++++Asdu Type Firmware Backoff...
IEC10X_Enqueue,Prio(1) elementNum(0)len(17)(17)
  ASAN: SIGSEGV
   ==11061==ERROR: AddressSanitizer: SEGV on unknown address 0x0000000000000 (pc 0x00000000000 bp 0x7f46d8dfe610 sp 0x7f46d8dfe5e8 T1)
  ==11061==Hint: pc points to the zero page.
  AddressSanitizer can not provide additional info.
   SUMMARY: AddressSanitizer: SEGV ??:0 ??
  Thread T1 created by T0 here:
       #0 0x7f46dc3c0253 in pthread_create (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x36253)
       #1 0x4020a9 in main /root/feilong/libiec104_fuzz/asan-mode/IEC10X/main.c:299
  ==11061==ABORTING
I use gdb to debug it and the information is as following:
  [DumpHEX]Length:6
  68:04:43:00:02:21
  hC!IEC10X_Enqueue,Prio(0) elementNum(0)len(6)(6)
  Tester Count(2)...
Thread 2 "iec104_monitor" received signal SIGSEGV, Segmentation fault.
  (gdb) backtrace
  #0 0x0000000000000000 in ?? ()
#1 0x000000000000040a605 in Iec104_Deal_I (Iec104Data=Iec104Data@entry=0x7ffff37fe880, len=len@entry=137) at ../IEC10X/Iec104.c:1214
   #2 0x00000000040adac in Iex104_Receive (buf=buf@entry=0x7ffff37fe880 "h\207", len=len@entry=8) at ../IEC10X/Iec104.c:1305
  #3 0x00000000004046667 in Iec104_main (arg=<optimized out>) at main.c:138 
#4 0x00007ffff6a306ba in start_thread (arg=0x7ffff37ff700) at pthread_create.c:333
  #5 0x00007ffff676641d in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:109
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• luckyzfl closed this as completed on Jul 12, 2019

| Assignees No one assigned | | |
|------------------------------|--|--|
| Labels None yet | | |
| Projects None yet | | |

Milestone

No milestone

Development

No branches or pull requests

1 participant

