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SEGV in function lec104_Deal_FirmUpdate #5

○ 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 in my ubuntu16.04 machine with AddressSanitizer( export CFLAGS="-g -fsanitize=address" CXXFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" before
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 socket 10000, there will be a SEGV
during the running
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
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 run time 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) !
  Tec104 Bind Ok(10000)
   Iec104 Listen Ok(10000)
  Accept ok!
   Server start get connect from 0 : 0x2328
  [DumpHEX]Length:43
68:e0:40:00:00:83:80:68
                            10:00:00:00:00:00:00:00
  -Iex104_Receive-,Frame Type I
   Receive Pakage I(32,16768), Send(0,0)
  ++++Asdu Type Firmware Update...
-Iec104_Deal_FirmUpdate-,data finish:0,Len:208,Total Len:0
  ASAN:SIGSEGV
   ==26583==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000000 (pc 0x00000000000 bp 0x00000000000 sp 0x7fb0d0cfe4e8 T1)
   ==26583==Hint: pc points to the zero page.
  AddressSanitizer can not provide additional info.
  SUMMARY: AddressSanitizer: SEGV ??:0 ??
  Thread T1 created by T0 here:
       #0 0x7fb0d4376253 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
  ==26583==ABORTING
I use gdb to debug it and the information is as following:
  Thread 2 "iec104_monitor" received signal SIGSEGV, Segmentation fault. [Switching to Thread 0x7ffff37ff700 (LWP 19690)]
   0x00000000000000000000 in ?? ()
   (gdb) backtrace
   #0 0x000000000000000000000 in ?? ()
   #1 0x000000000040898d in Iec104_Deal_FirmUpdate (asdu=asdu@entry=0x7ffff37fe886, Len=Len@entry=226 '\342') at ../IEC10X/Iec104.c:1129
  #2 0x00000000000000000010a631 in Iec104_Deal_I (Iec104Data=Iec104Data=Gentry=0x7ffff37fe880, len=len@entry=226) at ../IEC10X/Iec104.c:1208
#3 0x0000000000000000dadac in Iex104_Receive (buf=buf@entry=0x7ffff37fe880 "h\340@", len=len@entry=43) at ../IEC10X/Iec104.c:1305
  #4 0x000000000040fe67 in Iec104_main (arg=coptimized out>) at main.c:138
#5 0x00007ffff6a306ba in start_thread (arg=0x7ffff37ff700) at pthread_create.c:333
  #6 0x00007ffff676641d in clone () at ../svsdeps/unix/svsv/linux/x86 64/clone.S:109
  #1 0x000000000040898d in Iec104_Deal_FirmUpdate (asdu=asdu@entry=0x7ffff37fe886, Len=Len@entry=226 '\342') at ../IEC10X/Iec104.c:1129
   #2 0x00000000040a631 in Iec104_Deal_I (Iec104Data=Iec104Data@entry=0x7ffff37fe880, len=len@entry=226) at ../IEC10X/Iec104.c:1208
  #6 0x00007ffff676641d in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:109
  (gdb)
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다소 This was referenced on Mar 17, 2019

SEGV in function lec104_Deal_FirmUpdate which is different from issue#5 #6

(⊘ Closed

New SEGV in function lec104_Deal_FirmUpdate which is different from issue#5 and issue#6 #7



• 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		

