

New issue Jump to bottom

heap-buffer-overflow (/home/lin/fribidi/bin/fribidi+0x108fe) in fribidi_cap_rtl_to_unicode #182

⊘ Closed

p870613 opened this issue on Dec 22, 2021 · 3 comments

p870613 commented on Dec 22, 2021

Hi, I found a bug, heap-buffer-overflow.

• SUMMARY:

SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/lin/fribidi/bin/fribidi+0x108fe) in fribidi_cap_rtl_to_unicode

- Version
- → bin git:(master) X ./fribidi --version
 fribidi (GNU FriBidi) 1.0.11
 interface version 4,
 Unicode Character Database version 14.0.0,
 Configure options.
 Copyright (C) 2004 Sharif FarsiWeb, Inc.

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Written by Behdad Esfahbod and Dov Grobgeld

At branch 859aa1b

Steps to reproduce

```
git clone https://github.com/fribidi/fribidi.git
cd fribidi
./autogen.sh
CFLAGS=-fsanitize=address ./configure --disable-shared
```

```
make
./bin/fribidi --caprtl ./poc

    Platform

→ bin git:(master) X gcc --version
gcc (Ubuntu 7.5.0-3ubuntu1~18.04) 7.5.0
Copyright (C) 2017 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
→ bin git:(master) X uname -r
5.4.0-91-generic
→ bin git:(master) X lsb release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 18.04.5 LTS
            18.04
Release:
Codename:
            bionic
ASAN
→ fribidi git:(master) X ./bin/fribidi --caprtl ~/id:000145,sig:06,src:000565,op:havoc,rep:4
0000_f00000000$
_____
==10552==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61500000007c at pc
0x559f116818ff bp 0x7fffb37d3150 sp 0x7fffb37d3140
READ of size 4 at 0x61500000007c thread T0
   #0 0x559f116818fe in fribidi_cap_rtl_to_unicode (/home/lin/fribidi/bin/fribidi+0x108fe)
   #1 0x559f1168019e in fribidi_charset_to_unicode (/home/lin/fribidi/bin/fribidi+0xf19e)
   #2 0x559f11676b5e in main (/home/lin/fribidi/bin/fribidi+0x5b5e)
   #3 0x7f7d5fd4bbf6 in libc start main (/lib/x86 64-linux-gnu/libc.so.6+0x21bf6)
   #4 0x559f11675d29 in _start (/home/lin/fribidi/bin/fribidi+0x4d29)
0x61500000007c is located 4 bytes to the left of 512-byte region [0x615000000080,0x6150000000280)
allocated by thread T0 here:
   #0 0x7f7d601f9b40 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb40)
   #1 0x559f11680853 in init_cap_rtl (/home/lin/fribidi/bin/fribidi+0xf853)
   #2 0x559f116812b0 in fribidi_cap_rtl_to_unicode (/home/lin/fribidi/bin/fribidi+0x102b0)
   #3 0x559f1168019e in fribidi_charset_to_unicode (/home/lin/fribidi/bin/fribidi+0xf19e)
   #4 0x559f11676b5e in main (/home/lin/fribidi/bin/fribidi+0x5b5e)
   #5 0x7f7d5fd4bbf6 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21bf6)
SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/lin/fribidi/bin/fribidi+0x108fe) in
fribidi_cap_rtl_to_unicode
Shadow bytes around the buggy address:
```

```
Shadow byte legend (one shadow byte represents 8 application bytes):
  Addressable:
                 00
  Partially addressable: 01 02 03 04 05 06 07
  Heap left redzone:
                 fa
  Freed heap region:
                   fd
  Stack left redzone:
                  f1
  Stack mid redzone:
                   f2
  Stack right redzone:
                  f3
  Stack after return:
                   f5
  Stack use after scope: f8
  Global redzone:
                   f9
  Global init order:
                  f6
                  f7
  Poisoned by user:
  Container overflow:
                   fc
  Array cookie:
                   ac
  Intra object redzone:
  ASan internal:
  Left alloca redzone:
  Right alloca redzone:
                   cb
 ==10552==ABORTING
poc: poc.zip
Thanks !!!
```

tagoh added a commit to tagoh/fribidi that referenced this issue on Feb 17

Fix the heap buffer overflow in fribidi_cap_rtl_to_unicode ...

a1ccd5e

tagoh mentioned this issue on Feb 17

Fix the heap buffer overflow in fribidi_cap_rtl_to_unicode #185

(| | Closed)

carnil commented on Mar 25

CVE-2022-25309 seems to have been assigned for this issue.

tagoh commented on Mar 29

Contributor

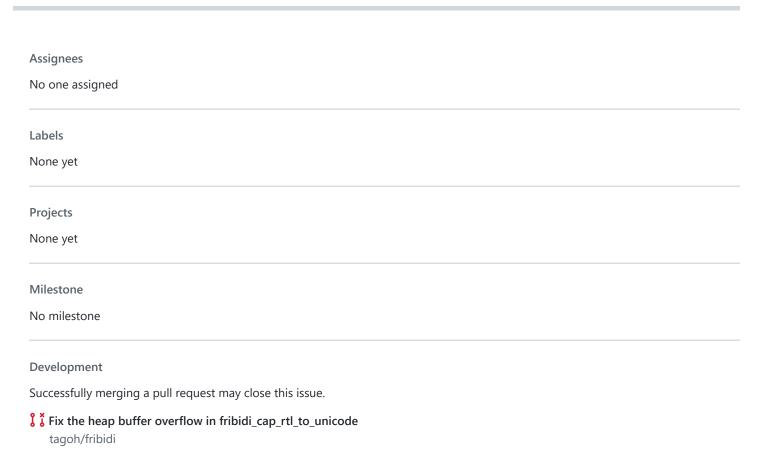
This seems to be fixed by f22593b

dov commented on Apr 19

Yes, this has been fixed.

Contributor

dov closed this as completed on Apr 19



4 participants







