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heap-use-after-free in njs_json_parse_iterator_call #325



○ Closed Changochen opened this issue on Jun 28, 2020 · 1 comment

bug fluff **fuzzer** Labels

```
Changochen commented on Jun 28, 2020
Version: 0.4.2, git commit 32a70c899c1f136fbc3f97fcc050d59e0bd8c6a5
        this[this['use asm'] = this[this[1024] = ArrayBuffer]] = this[ArrayBuffer] =
     JSON.parse("[1, 2, []]", a)
cmd: njs poc.js
 Stack dump:
    ==262019==ERROR: AddressSanitizer: heap-use-after-free on address 0x62b000000210 at pc 0x0000005e7fbc bp 0x7ffecccad3f0 sp 0x7ffecccad3e8 WRITE of size 1 at 0x62b000000210 thread T0
#0 0x5e7fbb in njs_json_parse_iterator_call /home/yongheng/njs/src/njs_json.c:1030:17
            #1 0x5e7fbb in njs_json_parse_iterator /home/yongheng/njs/src/njs_json.c:971:15
#2 0x5e7fbb in njs_json_parse /home/yongheng/njs/src/njs_json.c:167:16
           #3 0x5ff82e in njs_function_native_call /home/yongheng/njs/src/njs_function.c:707:11 #4 0x507611 in njs_function_frame_invoke /home/yongheng/njs/src/njs_function.h:172:16
            #5 0x507611 in njs_vmcode_interpreter /home/yongheng/njs/src/njs_vmcode.c:778:23
            #6 0x4c8f01 in njs_process_script /home/yongheng/njs/src/njs_shell.c:843:19
#7 0x4c68ce in njs_process_file /home/yongheng/njs/src/njs_shell.c:562:11
            #8 0x4c68ce in main /home/yongheng/njs/src/njs_shell.c:286:15
            #9 0x7f10a367db96 in libc start main /build/glibc-OTsEL5/glibc-2.27/csu/../csu/libc-start.c:310
            #10 0x41c089 in _start (/home/yongheng/njs/build/njs+0x41c089)
    0x62b000000210 is located 16 bytes inside of 24632-byte region [0x62b000000200,0x62b0000006238) freed by thread T0 here:
           #0 0x4940fd in __interceptor_free /b/s/w/ir/cache/builder/src/third_party/llvm/compiler-rt/lib/asan/asan_malloc_linux.cpp:123:3 #1 0x58fefa in njs_array_expand /home/yongheng/njs/src/njs_array.c:386:5
            #0 0x494e37 in __interceptor_posix_memalign /b/s/w/ir/cache/builder/src/third_party/llvm/compiler-rt/lib/asan/asan_malloc_linux.cpp:226:3
            #1 0x77c2fd in njs_memalign /home/yongheng/njs/src/njs_malloc.c:39:11
            #2 0x4daeed in njs_mp_alloc_large /home/yongheng/njs/src/njs_mp.c:578:13
#3 0x4daeed in njs_mp_align /home/yongheng/njs/src/njs_mp.c:331:16
    SUMMARY: Address Sanitizer: heap-use-after-free /home/yongheng/njs/src/njs\_json.c: 1030: 17 in njs\_json\_parse\_iterator\_call for the content of the content
     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:
        Freed heap region:
        Stack left redzone:
Stack mid redzone:
        Stack right redzone:
        Stack after return:
        Stack use after scope:
         Global redzone:
        Global init order:
        Poisoned by user:
        Container overflow:
         Array cookie:
        Intra object redzone:
        ASan internal:
Left alloca redzone:
        Right alloca redzone:
Shadow gap:
     ==262019==ABORTING
 (m 1)
```

Fixed heap-use-after-free in JSON.parse(). ... 9ab425e

xeioex commented on Oct 6, 2020 Contributor

Fixed in 9ab425e .

xeioex closed this as completed on Oct 6, 2020

Assignees
No one assigned

Labels
bug fluff fuzzer

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

2 participants

