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PSPP - Bugs: bug #63000, heapbuffer-overflow in read_string

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bug #63000: heap-buffer-overflow in read string

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Fri 02 Sep 2022 07:22:22 Submitted:

Bugs Patches News

AM UTC

None

Fixed

0.00

Open/Closed: Closed

Severity: 5 - Average

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Mon 19 Sep 2022 05:41:00 PM UTC, comment #1: Quote

I fixed it, by preventing the program from being installed: https://git.savannah.gnu.org/cgit/pspp.git/commit/? id=8596d6eb21e40ffaf9321d1cb779333de3126b50.

Ben Pfaff <blood

Fri 02 Sep 2022 07:22:22 AM UTC, original submission:

han zheng <kdsj>

```
## short summary
Hello, I was testing my fuzzer and find a heap buffer overflow in
read string, pspp-1.6.2
## Environment
Ubuntu 21.10
gcc 11.2.0
pspp-1.6.2
## step to reproduce
./configure --disable-shared --without-qui && make -j$(nproc)
./pspp-dump-sav $POC
## ASan output
===========
==2607491==ERROR: AddressSanitizer: heap-buffer-overflow on
address 0x602000000111 at pc 0x0000004d6a35 bp 0x7fffc66178b0 sp
0x7fffc66178a8
WRITE of size 1 at 0x602000000111 thread TO
    #0 0x4d6a34 in read string
/home/kdsj/workspace/fuzz/verify/pspp-1.6.2/utilities/pspp-dump-
sav.c:1661:20
    #1 0x4d6a34 in read character encoding
/home/kdsj/workspace/fuzz/verify/pspp-1.6.2/utilities/pspp-dump-
sav.c:1020:3
    #2 0x4d6a34 in read extension record
/home/kdsj/workspace/fuzz/verify/pspp-1.6.2/utilities/pspp-dump-
sav.c:649:7
    #3 0x4d6a34 in main /home/kdsj/workspace/fuzz/verify/pspp-
1.6.2/utilities/pspp-dump-sav.c:219:15
    #4 0x7f1baa451fcf in libc start call main
csu/../sysdeps/nptl/libc start call main.h:58:16
    #5 0x7f1baa45207c in libc start main csu/../csu/libc-
start.c:409:3
    #6 0x41f384 in start (/home/kdsj/workspace/fuzz/verify/pspp-
1.6.2/utilities/pspp-dump-sav+0x41f384)
0x60200000111 is located 0 bytes to the right of 1-byte region
[0x602000000110, 0x602000000111)
allocated by thread TO here:
    #0 0x49a3c2 in calloc /home/kdsj/workspace/llvm-
project/compiler-rt/lib/asan/asan malloc linux.cpp:154:3
    #1 0x4da045 in xcalloc /home/kdsj/workspace/fuzz/verify/pspp-
1.6.2/q1/xmalloc.c:297:19
    #2 0x7f1baa451fcf in libc start call main
csu/../sysdeps/nptl/libc start call main.h:58:16
SUMMARY: AddressSanitizer: heap-buffer-overflow
```

/home/kdsj/workspace/fuzz/verify/pspp-1.6.2/utilities/pspp-dump-

```
sav.c:1661:20 in read string
Shadow bytes around the buggy address:
 0x0c047fff8000: fa fa fd fa fa fd fd fa fa fd fd fa fa fd fa
 0x0c047fff8010: fa fa fd fa fa fd fd fa fa fd fd fa fa fd fa
=>0x0c047fff8020: fa fa[01]fa fa fa
 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
 Poisoned by user:
               f7
 Container overflow:
               fc
 Arrav cookie:
                ac
 Intra object redzone: bb
 ASan internal:
               fe
 Left alloca redzone:
 Right alloca redzone: cb
 Shadow gap:
                CC
==2607491==ABORTING
## Credit
Han Zheng (NCNIPC of China, Hexhive)
```

(Note: upload size limit is set to 16384 kB, after insertion of the required escape characters.)

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file #53649: poc4.zip added by kdsj (653B - application/x-zip-compressed)

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<u>-email is unavailable</u> added by blp (Posted a comment)

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2022-09- 19	blp	Status	None		Fixed
		Open/Closed	Open		Closed
2022-09- 02	kdsj	Attached File	-		Added poc4.zip, #53649

