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[perl #130635] [PATCH] Stack overflow in Storable retrieve_hook

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From:

John Lightsey

Date:

January 24, 2017 19:22

Subject:

[perl #130635] [PATCH] Stack overflow in Storable retrieve_hook

Message ID:

[rt-4.0.24-26879-1485285748-923.130635-75-0@perl.org](https://rt.perl.org/Ticket/Display.html?id=130635)

```
# New Ticket Created by John Lightsey
# Please include the string: [perl #130635]
# in the subject line of all future correspondence about this issue.
# <URL: https://rt.perl.org/Ticket/Display.html?id=130635 >
```

This is a bug report for perl from john@nixnuts.net,
generated with the help of perlbug 1.40 running under perl 5.25.9.

 AFL detected a stack overflow in Storable's retrieve_hook() function.

The problem essentially is that a hook's classname length is read into a signed integer, compared to the size of a stack buffer, then used to read the classname. The size comparison treats the length as signed, while the read treats the length as unsigned.

[Please do not change anything below this line]

```
-----
---
Flags:
  category=library
  severity=low
  Type=Patch
  PatchStatus=HasPatch
  module=Storable
---
```

Site configuration information for perl 5.25.9:

Configured by jd at Wed Jan 4 22:24:39 CST 2017.

Summary of my perl5 (revision 5 version 25 subversion 9) configuration:

```
Snapshot of: 1e67156061b1f7aa186cda226e8470dfalc5a681
Platform:
  osname=linux
  osvers=4.8.0-2-amd64
  archname=x86_64-linux
  uname='linux_slug 4.8.0-2-amd64 #1 smp debian 4.8.11-1 (2016-12-02) x86_64 gnulinux '
  config_args='-de -Dprefix=/home/jd/perl5/perlbrew/perl5/perl-blead-new -Dcc=/usr/bin/afl-gcc -DDEBUGGING -Dusedevel -Aeval:scriptdir=/home/jd/perl5/perlbrew/perl5/perl-blead-new
  hint=recommended
  useposix=true
  d_sigaction=define
  useithreads=undef
  usemultiplicity=undef
  use64bitint=define
  use64bitall=define
  uselongdouble=undef
  usemymalloc=n
  bincompat5005=undef
Compiler:
  cc='/usr/bin/afl-gcc'
  ccflags='-fwrapv -DDEBUGGING -fno-strict-aliasing -pipe -fstack-protector-strong -I/usr/local/include -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64 -g'
  optimize='-O2 -g'
  cppflags='-fwrapv -DDEBUGGING -fno-strict-aliasing -pipe -fstack-protector-strong -I/usr/local/include'
  ccversion=''
  gccversion='6.3.0 20161229'
  gccosandvers=''
  intsize=4
  longsize=8
  ptrsize=8
  doublesize=8
  byteorder=12345678
  doublekind=3
  d_longlong=define
  longlongsize=8
  d_longdbl=define
  longdblsize=16
  longdblkind=3
  ivtype='long'
  ivsize=8
  nvtype='double'
  nvsize=8
  Off_t='off_t'
  lseeksize=8
  alignbytes=8
  prototype=define
Linker and Libraries:
  ld='/usr/bin/afl-gcc'
  ldflags='-fstack-protector-strong -L/usr/local/lib'
```

4/24/26, 5:15 PM

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```
libpth=/usr/local/lib /usr/lib/gcc/x86_64-linux-gnu/6/include-fixed /usr/include/x86_64-linux-gnu /usr/lib /lib/x86_64-linux-gnu /lib/..
libs=-lpthread -lnsl -ldl -lm -lcrypt -lutil -lc
perllibs=-lpthread -lnsl -ldl -lm -lcrypt -lutil -lc
libc=libc-2.24.so
so=so
useshrplib=false
libperl=libperl.a
gnulibc_version='2.24'
Dynamic Linking:
dlsrclib=dlopen.xs
dlextrlib=so
d_dlsymun=undef
ccdlflags='-Wl, -E'
cccdlflags='-fPIC'
lddflags='-shared -O2 -g -L/usr/local/lib -fstack-protector-strong'
```

Locally applied patches:
Devel::PatchPerl 1.46

```
---
@INC for perl 5.25.9:
/home/jd/perl5/perlbrew/perls/perl-blead-new/lib/site_perl/5.25.9/x86_64-linux
/home/jd/perl5/perlbrew/perls/perl-blead-new/lib/site_perl/5.25.9
/home/jd/perl5/perlbrew/perls/perl-blead-new/lib/5.25.9/x86_64-linux
/home/jd/perl5/perlbrew/perls/perl-blead-new/lib/5.25.9
```

```
---
Environment for perl 5.25.9:
HOME=/home/jd
LANG=en_US.UTF-8
LANGUAGE (unset)
LD_LIBRARY_PATH (unset)
LOGDIR (unset)
PATH=/home/jd/perl5/perlbrew/bin:/home/jd/perl5/perlbrew/perls/perl-blead-new/bin:/home/jd/.gems/bin:/home/jd/bin:/home/jd/bin:/usr/local
PERLBREW_BASHRC_VERSION=0.76
PERLBREW_HOME=/home/jd/.perlbrew
PERLBREW_MANPATH=/home/jd/perl5/perlbrew/perls/perl-blead-new/man
PERLBREW_PATH=/home/jd/perl5/perlbrew/bin:/home/jd/perl5/perlbrew/perls/perl-blead-new/bin
PERLBREW_PERL=perl-blead-new
PERLBREW_ROOT=/home/jd/perl5/perlbrew
PERLBREW_VERSION=0.78
PERL_BADLANG (unset)
SHELL=/bin/bash
```

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