

[Date Prev][Date Next][Thread Prev][Thread Next] [Date Index] [Thread Index]

- Subject: Stack overflow in luaO_pushvfstring
- From: Yongheng Chen <changochen1@... Date: Mon, 6 Jul 2020 00:27:48 -0400

Hi,

We found a stack overflow in lua. Here's the details:

Lua 5.4.0, git hash c33b1728aeb7dfeec4013562660e07d32697aa6b

POC:

function errfunc() xpcall(function() print(xpcall(test, errfunc)) end, errfunc) $end(function()\ print(xpcall(test,\ errfunc))\ end)()$

How to reproduce:

./lua poc.lua

Stack dump:

AddressSanitizer:DEADLYSIGNAL

==16336=ERROR: AddressSanitizer: stack-overflow on address 0x7fffad2a9d78 (pc 0x7f9977ca3796 bp 0x7fffad2aa610 sp 0x7fffad2a9d80 T0)

#0 0x7f9977ca3795 (/usr/lib/x86_64-linux-gnu/libasan.so.5+0x73795)

#1 0x422a0c in luaO pushvfstring (/home/yongheng/lua asan/lua+0x422a0c)

#2 0x411455 in luaG_runerror (/home/yongheng/lua_asan/lua+0x411455)

#3 0x411595 in luaG_typeerror (/home/yongheng/lua_asan/lua+0x411595)

#4 0x4138bc in luaD_tryfuncTM (/home/yongheng/lua_asan/lua+0x4138bc)

 $\#5\ 0x41480d\ in\ luaD_call\ (/home/yongheng/lua_asan/lua+0x41480d)$

#6 0x415194 in luaD_callnoyield (/home/yongheng/lua_asan/lua+0x415194)

#7 0x4127d0 in luaD rawrunprotected (/home/yongheng/lua asan/lua+0x4127d0)

#8 0x415d70 in luaD_pcall (/home/yongheng/lua_asan/lua+0x415d70)

#9 0x40bd47 in lua_pcallk (/home/yongheng/lua_asan/lua+0x40bd47)

#10 0x45672e in luaB_xpcall (/home/yongheng/lua_asan/lua+0x45672e)

#11 0x414de1 in luaD_call (/home/yongheng/lua_asan/lua+0x414de1)

Found by: Yongheng Chen and Rui Zhong

Best,

Yongheng

Sent from Mail for Windows 10

- · Follow-Ups:
 - Re: Stack overflow in luaO pushvfstring, Luiz Henrique de Figueiredo
 - Re: Stack overflow in luaO pushvfstring, Roberto Ierusalimschy
- Prev by Date: [ANN] Ravi (a Lua dialect) 1.0 Beta-4 Release with JIT compilation support
- Next by Date: Heap use after free in luaD call
- Previous by thread: Re: [ANN] Ravi (a Lua dialect) 1.0 Beta-4 Release with JIT compilation support
 Next by thread: Re: Stack overflow in luaO pushvfstring
- Index(es):
- Date Thre Thread