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- **Subject:** Segmentation fault in changedline
- **From:** Yongheng Chen <changochen1@...>
- **Date:** Thu, 9 Jul 2020 18:03:49 -0400

Hi,

We found a segmentation fault in changedline, called by luaG_traceexec.

Version:

Lua 5.4.0, git hash 31b8c2d4380a762d1ed6a7face74a1d107f86014

Tested on default build of lua on Ubuntu 18. If we build with asan, the error is gone.

An already-reduced POC:

```
function errfunc ( p1, p2, p3, p12, p13, p14, p15, p6, p7, p16, p18, p19, p20, p21,
p22, p23, p24, p25, p26, p27, p28, p29, p30, p31, p32, p33, p34,
p35, p36, p37, p38, p39, p40, p41, p42, p43, p44, p45, p46, p48,
p49, p50 )
return end
function test ( )
print ( do_yield and "" )
pcall ( function ( ) if do_yield then end end )
error 'fail' end coro =
coroutine.wrap ( function ( ) print ( xpcall ( test, errfunc, false ) )
do
k = 0 local x::foo::assert ( not y ) k =
1 if k then function g ( ) setmetatable (
{
},
{
__gc = function() function errfunc(x) end function test(do_yield) print
"yieldingnot yielding" pcall(function() if do_yield then yield() end end)
error 'fail' end
coro = coroutine.wrap coro() string.char(
0, 'BCDEFGHIJKLMNOPQRSTUVWXYZ'..'abcdefghijklmnopqrstuvwxyz',
"" )(function() yield() end) end
}
) end
function f ( )
debug.sethook ( print, "l" ) for j =
1, 1000
do
g ( )
end
end
f ( )
end
end
end )
( )
---
```

Partial Stackdump:

#0 0x00000000004248b3 in changedline (newpc=0x5, oldpc=0xffffe4b5, p=0xf84380)
at ldebug.c:791
#1 luaG_traceexec (L=0xf846b8, pc=0xf86d08) at ldebug.c:826
#2 0x00000000004923f5 in luaV_execute (L=L@entry=0xf846b8, ci=<optimized out>)
at lvm.c:1725
#3 0x000000000042e792 in luaD_call (L=L@entry=0xf846b8, func=<optimized out>,
nresults=<optimized out>) at ldo.c:504
#4 0x00000000004973ab in luaV_execute (L=L@entry=0xf846b8, ci=<optimized out>)
at lvm.c:1614
#5 0x000000000042e792 in luaD_call (L=L@entry=0xf846b8, func=<optimized out>,
nresults=<optimized out>) at ldo.c:504
#6 0x00000000004973ab in luaV_execute (L=L@entry=0xf846b8, ci=ci@entry=0xf84a20)
at lvm.c:1614
#7 0x000000000042be7c in unroll (ud=0x7ff48258edc, L=0xf846b8) at ldo.c:574
#8 luaD_rawrunprotected (L=L@entry=0xf846b8, ud=ud@entry=0x7ff48258edc,
f=<optimized out>) at ldo.c:148
#9 0x0000000000431188 in lua_resume (L=L@entry=0xf846b8, from=from@entry=0xf7c018,
nargs=nargs@entry=0x0, nresults=nresults@entry=0x7ff48258f1c) at ldo.c:686
#10 0x0000000000505809 in auxresume (narg=0x0, co=0xf846b8, L=0xf7c018)

Sent from [Mail](#) for Windows 10

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- **Follow-Ups:**
 - [Re: Segmentation fault in changedline](#), *Roberto Ierusalimschy*
 - Prev by Date: [Re: New param in lua_resume in Lua 5.4](#)
 - Next by Date: [\[ANN\] lua-bint - Arbitrary precision integer arithmetic library in pure Lua](#)
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