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New issue

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Aborted in CWriter::Write at wasm2c #1985

Closed

Q1IQ opened this issue on Sep 5 · 1 comment · Fixed by #1887

Q1IQ commented on Sep 5

Environment

: Linux ubuntu 5.15.0-46-generic #49~20.04.1-Ubuntu SMP Thu Aug 4 19:15:44 UTC 2022 x86_64

x86 64 x86 64 GNU/Linux

Commit : 3054d61f703d609995798f872fc86b462617c294

Version: 1.0.29

Build : make clang-debug-asan

Proof of concept

poc_wasm2c-1.wasm poc_wasm2c-1.wasm.zip

Stack dump

```
gdb /wabt/out/clang/Debug/asan/wasm2c
pwndbg> r --enable-multi-memory ./poc_wasm2c-1.wasm
LEGEND: STACK | HEAP | CODE | DATA | RWX | RODATA
                             ----[ REGISTERS ]-
 RAX 0x0
*RBX 0x7fffff7a357c0 ← 0x7fffff7a357c0
*RCX 0x7ffff7a7b00b (raise+203) → 0x10824848b48 ← 0x0
RDX 0x0
*RDI 0x2
*RSI 0x7fffffff6990 ← 0x0
R8
     0x0
*R9 0x7fffffff6990 ← 0x0
*R10 0x8
*R11 0x246
*R12 0x43e420 (_start) ← endbr64
*R13 0x7fffffffe070 ← 0x3
```

```
R14 0x0
 R15 0x0
*RBP 0x7fffffff88f0 -▶ 0x7fffffff8930 -▶ 0x7fffffffa650 -▶ 0x7fffffffa690 -▶ 0x7fffffffc3c0 <-
*RSP 0x7fffffff6990 ← 0x0
*RIP 0x7ffff7a7b00b (raise+203) → 0x10824848b48 ← 0x0
                                ---[ DISASM ]---
 ► 0x7ffff7a7b00b <raise+203>
                                       rax, qword ptr [rsp + 0x108]
                                mov
   0x7ffff7a7b013 <raise+211>
                                xor
                                       rax, qword ptr fs:[0x28]
                                                                <raise+260>
   0x7ffff7a7b01c <raise+220>
                                jne
                                       raise+260
   0x7ffff7a7b044 <raise+260>
                                                                      <__stack_chk_fail>
                                call
                                       __stack_chk_fail
   0x7ffff7a7b049
                                       dword ptr [rax]
                                nop
   0x7ffff7a7b050 <killpg>
                                endbr64
   0x7fffff7a7b054 <killpg+4>
                                test
                                       edi, edi
   0x7ffff7a7b056 <killpg+6>
                                       killpg+16
                                                                <killpg+16>
                                js
   0x7fffff7a7b058 <killpg+8>
                                neg
                                       edi
   0x7ffff7a7b05a <killpg+10>
                                       kill
                                                           <kill>
                                jmp
   0x7ffff7a7b05f <killpg+15>
                                nop
                                 ---[ STACK ]-
00:0000 rsi r9 rsp 0x7fffffff6990 ← 0x0
01:0008
                   0x7fffffff6998 ← '(ut)(x))unimplemented: %'
                   0x7fffffff69a0 ← 'unimplemented: %'
02:0010
03:0018
                   0x7fffffff69a8 ← 'ented: %'
04:0020
                   0x7fffffff69b0 ← 0x0
...↓
                   3 skipped
                               -- [ BACKTRACE ]------
 ► f 0
        0x7fffff7a7b00b raise+203
   f 1
        0x7ffff7a5a859 abort+299
   f 2
              0x52769e
   f 3
              0x5315c3
   f 4
              0x52760d
   f 5
              0x5315c3
   f 6
              0x52760d
              0x51dd51
   f 7
backtrace msg:
#0 __GI_raise (sig=sig@entry=6) at ../sysdeps/unix/sysv/linux/raise.c:50
#1 0x00007fffff7a5a859 in __GI_abort () at abort.c:79
#2 0x00000000052769e in wabt::(anonymous namespace)::CWriter::Write (this=0x7fffffffce30,
exprs=...) at ../../../src/c-writer.cc:1969
#3 0x0000000005315c3 in wabt::(anonymous namespace)::CWriter::Write<wabt::(anonymous
namespace)::Newline, wabt::intrusive_list<wabt::Expr> const&> (this=0x7fffffffce30, t=..., u=...)
at ../../src/c-writer.cc:205
#4 0x00000000052760d in wabt::(anonymous namespace)::CWriter::Write (this=0x7fffffffce30,
exprs=...) at ../../../src/c-writer.cc:1945
#5 0x0000000005315c3 in wabt::(anonymous namespace)::CWriter::Write<wabt::(anonymous
namespace)::Newline, wabt::intrusive_list<wabt::Expr> const&> (this=0x7fffffffce30, t=..., u=...)
at ../../src/c-writer.cc:205
#6 0x00000000052760d in wabt::(anonymous namespace)::CWriter::Write (this=0x7fffffffce30,
exprs=...) at ../../../src/c-writer.cc:1945
#7 0x000000000051dd51 in wabt::(anonymous
```

```
namespace)::CWriter::Write<wabt::intrusive list<wabt::Expr> const&, wabt::(anonymous
namespace)::LabelDecl> (this=0x7fffffffce30, t=..., u=...) at ../../../src/c-writer.cc:204
#8 0x00000000051bd15 in wabt::(anonymous namespace)::CWriter::Write (this=0x7fffffffce30,
func=...) at ../../../src/c-writer.cc:1423
#9 0x00000000051b647 in wabt::(anonymous namespace)::CWriter::Write<wabt::(anonymous
namespace)::Newline, wabt::Func const&, wabt::(anonymous namespace)::Newline>
(this=0x7fffffffce30, t=..., u=..., args=...) at ../../../src/c-writer.cc:205
#10 0x00000000051182d in wabt::(anonymous namespace)::CWriter::WriteFuncs (this=0x7fffffffce30)
at ../../src/c-writer.cc:1393
#11 0x000000000500bf4 in wabt::(anonymous namespace)::CWriter::WriteCSource (this=0x7fffffffce30)
at ../../../src/c-writer.cc:2794
#12 0x0000000004ffcd7 in wabt::(anonymous namespace)::CWriter::WriteModule (this=0x7fffffffce30,
module=...) at ../../../src/c-writer.cc:2807
#13 0x0000000004ff48d in wabt::WriteC (c stream=0x7ffffffdaa0, h stream=0x7ffffffdaa0,
header_name=0x7ccce0 <str> "wasm.h", module=0x7fffffffd2b0, options=...) at ../../../src/c-
writer.cc:2819
#14 0x0000000004f11b4 in ProgramMain (argc=3, argv=0x7fffffffe078) at
../../src/tools/wasm2c.cc:179
#15 0x00000000004f37f2 in main (argc=3, argv=0x7fffffffe078) at
../../src/tools/wasm2c.cc:190
#16 0x00007ffff7a5c083 in libc start main (main=0x4f37d0 <main(int, char**)>, argc=3,
argv=0x7fffffffe078, init=<optimized out>, fini=<optimized out>, rtld fini=<optimized out>,
stack_end=0x7fffffffe068) at ../csu/libc-start.c:308
#17 0x000000000043e44e in start ()
```

keithw commented on Sep 17

Collaborator

This appears to be accurately (but clumsily) printing "unimplemented" because reference types are unimplemented in the current wasm2c (but wasm2c uses the default validator settings). Will be fixed by #1887.





keithw mentioned this issue on Sep 17

wasm2c: implement the reference-types proposal #1887

Merged



keithw closed this as completed in #1887 on Oct 3

Assignees

No one assigned

Labels

None yet

Droinete		
Projects		
None yet		
Milestone		
No milestone		
Development		

Successfully merging a pull request may close this issue.

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2 participants



