

(537599 inline 8-bit counters): 537599 [0x53258a0, 0x53a8c9f),

INFO: Loaded 1 PC tables (537599 PCs): 537599 [0x53a8ca0,0x5bdcc90),

solc_ossfuzz: Running 1 inputs 1 time(s) each.

INFO: Seed: 2663119797
INFO: Loaded 1 modules

```
Running: id:000000,sig:06,src:012925,time:33170510,op:havoc,rep:2,trial:3
terminate called after throwing an instance of
'boost::wrapexcept<solidity::langutil::InternalCompilerError>'
 what(): Solidity assertion failed
==2678862== ERROR: libFuzzer: deadly signal
   #0 0x505691 in __sanitizer_print_stack_trace (solc_ossfuzz+0x505691)
   #1 0x55da28 in fuzzer::PrintStackTrace() (solc_ossfuzz+0x55da28)
   #2 0x542819 in fuzzer::Fuzzer::CrashCallback() (solc_ossfuzz+0x542819)
   #3 0x7ffff7c713bf (/lib/x86_64-linux-gnu/libpthread.so.0+0x143bf)
   #4 0x7ffff7a8103a in libc signal restore set /build/glibc-sMfBJT/glibc-
2.31/signal/../sysdeps/unix/sysv/linux/internal-signals.h:86:3
    #5 0x7ffff7a8103a in raise /build/glibc-sMfBJT/glibc-
2.31/signal/../sysdeps/unix/sysv/linux/raise.c:48:3
   #6 0x7ffff7a60858 in abort /build/glibc-sMfBJT/glibc-2.31/stdlib/abort.c:79:7
   #7 0x7ffff7e6d910 (/lib/x86_64-linux-gnu/libstdc++.so.6+0x9e910)
   #8 0x7ffff7e7938b (/lib/x86 64-linux-gnu/libstdc++.so.6+0xaa38b)
   #9 0x7ffff7e793f6 in std::terminate() (/lib/x86_64-linux-gnu/libstdc++.so.6+0xaa3f6)
   #10 0x7ffff7e796a8 in cxa throw (/lib/x86 64-linux-gnu/libstdc++.so.6+0xaa6a8)
   #11 0x6407ae in void boost::throw_exception<solidity::langutil::InternalCompilerError>
(solidity::langutil::InternalCompilerError const&) (solc_ossfuzz+0x6407ae)
   #12 0x181c97c in
solidity::frontend::SMTEncoder::indexOrMemberAssignment(solidity::frontend::Expression const&,
solidity::smtutil::Expression const&) (solc_ossfuzz+0x181c97c)
    #13 0x1809c94 in solidity::frontend::SMTEncoder::assignment(solidity::frontend::Expression
const&, solidity::smtutil::Expression const&, solidity::frontend::Type const*)
(solc_ossfuzz+0x1809c94)
   #14 0x17ffc41 in solidity::frontend::SMTEncoder::endVisit(solidity::frontend::Assignment
const&) (solc_ossfuzz+0x17ffc41)
   #15 0x169761d in
solidity::frontend::CHC::defineContractInitializer(solidity::frontend::ContractDefinition const&,
solidity::frontend::ContractDefinition const&) (solc_ossfuzz+0x169761d)
   #16 0x168eca6 in solidity::frontend::CHC::endVisit(solidity::frontend::ContractDefinition
const&) (solc ossfuzz+0x168eca6)
   #17 0xe66f1a in void
solidity::frontend::ASTNode::listAccept<std::shared_ptr<solidity::frontend::ASTNode> >
(std::vector<std::shared_ptr<solidity::frontend::ASTNode>,
std::allocator<std::shared_ptr<solidity::frontend::ASTNode> > const&,
solidity::frontend::ASTConstVisitor&) (solc_ossfuzz+0xe66f1a)
   #18 0xe66985 in solidity::frontend::SourceUnit::accept(solidity::frontend::ASTConstVisitor&)
const (solc_ossfuzz+0xe66985)
   #19 0x167c1d9 in solidity::frontend::CHC::analyze(solidity::frontend::SourceUnit const&)
(solc ossfuzz+0x167c1d9)
   #20 0x178e5f3 in solidity::frontend::ModelChecker::analyze(solidity::frontend::SourceUnit
const&) (solc ossfuzz+0x178e5f3)
   #21 0x88c1f2 in solidity::frontend::CompilerStack::analyze() (solc_ossfuzz+0x88c1f2)
   #22 0x892357 in
solidity::frontend::CompilerStack::compile(solidity::frontend::CompilerStack::State)
(solc_ossfuzz+0x892357)
   #23 0x56b6d5 in FuzzerUtil::testCompiler(std::map<std::_cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::less<std::__cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> > >,
std::allocator<std::pair<std::_cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> > const, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> > > >&, bool, unsigned int, bool, bool) (solc_ossfuzz+0x56b6d5)
   #24 0x562ddf in LLVMFuzzerTestOneInput (solc_ossfuzz+0x562ddf)
```

```
#25 0x543f49 in fuzzer::Fuzzer::ExecuteCallback(unsigned char const*, unsigned long)
  (solc ossfuzz+0x543f49)
      #26 0x52ee49 in fuzzer::RunOneTest(fuzzer::Fuzzer*, char const*, unsigned long)
  (solc ossfuzz+0x52ee49)
      #27 0x533d52 in fuzzer::FuzzerDriver(int*, char***, int (*)(unsigned char const*, unsigned
  long)) (solc_ossfuzz+0x533d52)
      #28 0x52ebd2 in main (solc_ossfuzz+0x52ebd2)
      #29 0x7ffff7a620b2 in __libc_start_main /build/glibc-sMfBJT/glibc-2.31/csu/../csu/libc-
  start.c:308:16
      #30 0x48440d in start (solc ossfuzz+0x48440d)
  NOTE: libFuzzer has rudimentary signal handlers.
        Combine libFuzzer with AddressSanitizer or similar for better crash reports.
  SUMMARY: libFuzzer: deadly signal
zipped testcase to reproduce:
id:000000,sig:06,src:012925,time:33170510,op:havoc,rep:2,trial:3.zip
```

cameel commented on Apr 30

Member

Thanks for the report! I can confirm that this is reproducible on 0.8.13. Here's a slightly cleaned up repro:

```
contract C {
    string public name = (C).name = type(C).name;
}
solc test.sol --model-checker-engine all
Internal compiler error:
/solidity/libsolidity/formal/SMTEncoder.cpp(1596): Throw in function void
solidity::frontend::SMTEncoder::indexOrMemberAssignment(const solidity::frontend::Expression&,
const solidity::smtutil::Expression&)
Dynamic exception type: boost::wrapexcept<solidity::langutil::InternalCompilerError>
std::exception::what: Solidity assertion failed
[solidity::util::tag_comment*] = Solidity assertion failed
```

By the way, @pietroborrello if the Solidity sample is not huge, its best to just include it directly in the bug report. Also, if you run the sample though solc and that triggers an Internal Compiler Error (like I did above) that's a much simpler starting point and enough for us to investigate, no need to post the whole fuzzer output in that case. In any case thanks again for taking your time to report this!





Ш	cameel added this to New issues in Solidity via automation on Apr 30
[1]	cameel added this to To Do in SMT Checker via (automation) on Apr 30
0	cameel changed the title InternalCompilerError: Solidity assertion failed in in solidity::frontend::SMTEncoder::indexOrMemberAssignment [SMTChecker] ICE in SMTEncoder::indexOrMemberAssignment() with public state variable with invalid double initialization on Apr 30
pie	etroborrello commented on May 2 Author
Thank you for looking into this and for your kind reply. Next time I will follow your guidelines to ease your work :)	
NunoFilipeSantos added the SMT label 9 days ago Assignees No one assigned	
Labels bug should compile without error SMT	
Projects	
	SMT Checker High priority
Milestone No milestone	
Development No branches or pull requests	

3 participants





