Talos Vulnerability Report

TALOS-2020-1226

3MF Consortium lib3mf NMR::COpcPackageReader::releaseZIP() use-after-free vulnerability

MARCH 10, 2021

CVE NUMBER

CVE-2021-21772

Summary

A use-after-free vulnerability exists in the NMR::COpcPackageReader::releaseZIP() functionality of 3MF Consortium lib3mf 2.0.0. A specially crafted 3MF file can lead to code execution. An attacker can provide a malicious file to trigger this vulnerability.

Tested Versions

3MF Consortium lib3mf 2.0.0

Product URLs

https://github.com/3MFConsortium/lib3mf

CVSSv3 Score

8.1 - CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE

CWE-416 - Use After Free

Details

The lib3mf library is an open-source implementation of the 3MF file format and standard, mainly used for 3D-printing. Lib3mf provides input, output and conversion capabilities, along with API bindings for various languages (C, C++, C#, Go, NodeJS, Pascal and Python). The 3MF standard has been adopted in a variety of products and lib3mf itself has been confirmed to be used in open-source programs like OpenSCAD and LibCGAL.

When reading in a .3mf file (essentially a .zip file with a particular layout inside), via lib3mf, one needs to call one of the aptly named Lib3MF::CReader::ReadFromBuffer or Lib3MF::CReader::ReadFromFile functions, depending on the need of the programmer. Aside from input source, they both do the same thing:

```
void CReader::ReadFromBuffer (const Lib3MF_uint64 nBufferBufferSize, const Lib3MF_uint8 * pBufferBuffer)
{
   NMR::PImportStream pImportStream = std::make_shared<NMR::CImportStream_Shared_Memory>(pBufferBuffer, nBufferBufferSize); // [1]

   try {
        reader().readStream(pImportStream); // [2]
   }
   catch (NMR::CNMRException&e) {
        if (e.getErrorCode() == NMR_USERABORTED) {
            throw ELib3MFInterfaceException(LIB3MF_ERROR_CALCULATIONABORTED);
        }
        else throw e;
   }
}
```

[1] is a stream object initialization/allocation, and then we read the stream at [2]. Proceeding into CModelReader_3MF::readStream:

```
void CModelReader_3MF::readStream(_In_ PImportStream pStream)
{
    __NMRASSERT(pStream != nullptr);
    nfBool bHasModel = false;
    m_pProgressMonitor->SetProgressIdentifier(ProgressIdentifier::PROGRESS_READSTREAM);
    m_pProgressMonitor->SetProgressIdentifier(ProgressIdentifier::PROGRESS_EXTRACTOPCPACKAGE);
    // Extract Stream from Package
    PImportStream pModelStream = extract3MFOPCPackage(pStream); // [1]
```

Nothing fancy yet, [1] just attempts to extract a 3mf OPC package from the input stream. Without getting to in the weeds with the code path, eventually extract3MF0PCPackage() leads us to the creation of a COpcPackageReader object:

```
\label{local_continuous_continuous_continuous_continuous} COpc Package Reader (\_In\_PImport Stream pImport Stream, \_In\_PModel Reader Warnings pWarnings, \_In\_PProgress Monitor pProgress Monitor)
            : m_pWarnings(pWarnings), m_pProgressMonitor(pProgressMonitor)
      {
            if (!pImportStream)
                  throw CNMRException(NMR_ERROR_INVALIDPARAM);
            if (!pProgressMonitor)
                   throw CNMRException(NMR_ERROR_INVALIDPARAM);
            m_ZIPError.str = nullptr;
            m_ZIPError.sys_err = 0;
m_ZIPError.sip_err = 0;
m_ZIPError.sip_err = 0;
m_ZIParchive = nullptr;
m_ZIPsource = nullptr;
            try {
                  // determine stream size
nfUint64 nStreamSize = pImportStream->retrieveSize();
pImportStream->seekPosition(0, true);
                  \label{eq:control_control}  \mbox{if (nStreamSize == 0)} \\  \mbox{throw CNMRException(NMR_ERROR_COULDNOTGETSTREAMPOSITION);} 
                  // create ZIP objects
zip_error_init(&m_ZIPError);
                  bool bUseCallback = true;
if (bUseCallback) {
                         (ODSECATIOACK) 1
// read ZIP from callback: faster and requires less memory
m_ZIPsource = zip_source_function_create(custom_zip_source_callback, pImportStream.get(), &m_ZIPError); //[1]
        //[...]
```

This is where the non-wrapper code starts to operate, our COpcPackageReader object is just a wrapper around https://libzip.org/, using the libzip api to deal with the bulk of the work since
.3mf files are just fancy .zips. The zip_source_function_create function at [1] is where the libzip structs are allocated, as it calls _zip_source_new:

```
zip_source_t * _zip_source_new(zip_error_t *error) {
   zip_source_t *src;

   if ((src = (zip_source_t *)malloc(sizeof(*src))) == NULL) { // [1]
    zip_error_set(error, ZIP_ER_MEMORY, 0);
    return NULL;
}

src->src = NULL;
src->cb.f = NULL;
src->obe_ncount = 0;
src->pen_count = 0;
src->write_state = ZIP_SOURCE_WRITE_CLOSED;
src->source_closed = false;
src->source_archive = NULL;
src->refcount = 1;
zip_error_init(6src->error);
src->eof = false;
src->had_read_error = false;
return src; }
```

We only really care about the zip_source_t object allcoated at [1], as we'll see soon. Stepping back up to the COpcPackageReader object initialization, the allocated zip_source_t object is returned back into the m ZIPsource variable and we proceed to read the file:

```
bool bUseCallback = true;
if (bUseCallback) {
           // read ZIP from callback: faster and requires less memory
m_ZIPsource = zip_source_function_create(custom_zip_source_callback, pImportStream.get(), &m_ZIPError); //[1]
       // [...]
       if (m_ZIPsource == nullptr)
            throw CNMRException(NMR_ERROR_COULDNOTREADZIPFILE);
       m_ZIParchive = zip_open_from_source(m_ZIPsource, ZIP_RDONLY | ZIP_CHECKCONS, &m_ZIPError);
       m_ZIParchive == nullptr) {
    m_ZIParchive = zip_open_from_source(m_ZIPsource, ZIP_RDONLY, &m_ZIPError);
    if (m_ZIParchive == nullptr)
                 throw CNMRException(NMR_ERROR_COULDNOTREADZIPFILE);
                 m_pWarnings->addException(CNMRException(NMR_ERROR_ZIPCONTAINSINCONSISTENCIES), mrwInvalidMandatoryValue);
       // Get ZIP Content
       nfInt64 nEntryCount = zip_get_num_entries(m_ZIParchive, ZIP_FL_UNCHANGED); if (nEntryCount < 0)
            throw CNMRException(NMR_ERROR_COULDNOTREADZIPFILE);
       // List and stat Entries
       nfUint64 nUnzippedFileSize = 0:
       Intuitio4 #Unizappedritesize - 0;
for (nfInt64 #Index = 0; #Index < nEntryCount; mIndex++) {
   const char * pszName = zip_get_name(m_ZIParchive, (nfUint64) mIndex, ZIP_FL_ENC_GUESS);
   m_ZIPEntries.insert(std::make_pair(pszName, mIndex));</pre>
            zip stat t Stat;
            nfint32 nResult = zip_stat_index(m_ZIParchive, nIndex, ZIP_FL_UNCHANGED, &Stat);
if (nResult != 0)
                throw CNMRException(NMR_ERROR_COULDNOTSTATZIPENTRY);
            nUnzippedFileSize += Stat.size;
       m_pProgressMonitor->SetMaxProgress(double(nUnzippedFileSize));
       \verb|m_pProgressMonitor->ReportProgressAndQueryCancelled(true);|\\
       readContentTypes();
       readRootRelationships():
  catch (...)
       releaseZIP(); //[2]
throw;
```

It's not too important to actually read the code above, just worth noting alot of processing happens on the input .zip file from our zip_source_t object at [1], and if any exception are raised, we hit releaseZIP() at [2]. To proceed into this call path:

```
void COpcPackageReader::releaseZIP()
{
    if (m_ZIParchive != nullptr)
        zip_close(m_ZIParchive); // [1]

    if (m_ZIPsource != nullptr)
        zip_source_close(m_ZIPsource); // [2]

    zip_error_fini(&m_ZIPError);
    m_Buffer.resize(0);

m_ZIPsource = nullptr;
    m_ZIParchive = nullptr;
}
```

To quickly describe what zip_close [1] does, the libzip documentation: The zip_close() function writes any changes made to archive to disk. If archive contains no files, the file is completely removed (no empty archive is written). If successful, archive is freed. Otherwise archive is left unchanged and must still be freed. As for the actual implimentation in libzip-1.7.3/lib/zip_close.c:

Assuming no changes are made to the input zip file, we hit the code path at [1], going into zip_discard:

```
void
zip_discard(zip_t *za) {
    zip_uint64_t i;
    if (za == NULL)
    return;
    if (za->src) {
        zip_source_close(za->src);
        zip_source_free(za->src); // [1]
    }
//[...]
```

At [1] above, we reach the zip_source_free function, which critically frees the initially allocated zip_source_t struct (from the m_ZIPsource = zip_source_function_create(custom_zip_source_callback, pImportStream.get(), &m_ZIPError); line) inside of our COpcPackageReader object at [2] below:

```
ZIP_EXTERN void
zip_source_free(zip_source_t *src) {
   if (src == NULL)
        return;

   if (src->refcount > 0) {
        src->refcount > 0) {
        src->refcount > 0) {
            return;
        }
        if (src->refcount > 0) {
            return;
        }

        if (ZIP_SOURCE_IS_OPEN_READING(src)) {
            src->open_count = 1; /* force close */
            zip_source_close(src);
        }
        if (ZIP_SOURCE_IS_OPEN_WRITING(src)) {
            zip_source_rollback_write(src);
        }
        if (src->source_archive & !src->source_closed) {
            -zip_deregister_source(src->source_archive, src);
        }
        (void)_zip_source_call(src, NULL, 0, ZIP_SOURCE_FREE);
        if (src->src) {
            zip_source_free(src->src);
        }
        free(src); // [2]
}
```

After this chain of events and we step back up to COpcPackageReader::releaseZip():

```
void COpcPackageReader::releaseZIP()
{
    if (m_ZIParchive != nullptr)
        zip_close(m_ZIParchive); // [1]

    if (m_ZIPsource != nullptr)
        zip_source_close(m_ZIPsource); // [2]

    zip_error_fini(&m_ZIPError);
    m_Buffer.resize(0);

    m_ZIPsource = nullptr;
    m_ZIParchive = nullptr;
}
```

For the astute reader, the issue might be clear already. At [1], we eventually free the m_ZIParchive->src struct, which is also known as the m_ZIPsource object that is subsequently closed at [2]. Thus, the zip_source_close function can be passed an arbitrary user-controlled object, assuming that an attacker can win a race and allocate an object into the appropriate slot in between the free(m_ZIPsource) inside [1] and the use at [2], resulting in a classic use-after-free vulnerability inside zip_source_close:

```
int
zip_source_close(zip_source_t *src) { // src object can be user-controlled.
   if (!ZIP_SOURCE_IS_OPEN_READING(src)) {
        zip_error_set(&src->error, ZIP_ER_INVAL, 0);
        return -1;
   }

   src->open_count--;
   if (src->open_count == 0) {
        _zip_source_call(src, NULL, 0, ZIP_SOURCE_CLOSE);
   if (ZIP_SOURCE_IS_LAYERED(src)) {
        if (zip_source_close(src->src) < 0) {
            zip_error_set(&src->error, ZIP_ER_INTERNAL, 0);
        }
   }
}

return 0;
}
```

```
==4692==ERROR: AddressSanitizer: heap-use-after-free on address 0x6070000000050 at pc 0x7f2343babb3b bp 0x7ffd6b561a70 sp 0x7ffd6b561a68 READ of size 4 at 0x607000000050 thread T0
   #0 0x7f23443bab3a in zip_source_close //boop/assorted_fuzzing/lib3mf/libzip/libzip-1.7.3/lib/zip_source_close.c:40:10 #1 0x7f234422427 in NMR: COpcPackageReader::releaseZIP() //boop/assorted_fuzzing/lib3mf/lib3mf-2.0.0/Source/Common/OPC/NMR_OpcPackageReader.cpp:219:4
   #2 0x7f234422251b in NMR::COpcPackageReader::COpcPackageReader(std::shared_ptr<NMR::CImportStream>, std::shared_ptr<NMR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR::CMRR:
  ackageReader.cpp:179:4
#3 0x7f234427af0c in void __gnu_cxx::new_allocator<NMR::COpcPackageReader>::construct<NMR::COpcPackageReader,
std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6>
 std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6>
(NMR::COPpCackageReader*,
std::shared_ptr<NMR::CTmportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6)
/usr/bin/../lib/gcc/x86_64-linux-gnu/9/../.././include/c++/9/ext/new_allocator.h:147:23
## 6x7f234427a7d9 in void std::allocator_traits<std::allocator<NMR::COppPackageReader> >::construct<NMR::COpcPackageReader,
std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::COpcPackageReader>6, std::shared_ptr<NMR::COpcPackageReader>6, std::shared_ptr<NMR::COpcPackageReader>7, std::shared_ptr<NMR::COpcPackageReader>8, std::shared_ptr<NMR::COpcPackageReader88, std::shared_ptr<NMR::COpcPackageReader88, std::shared_ptr<NMR::COpcPackageReader88, std::shared_ptr<NMR::COpcPackageReader88, std::shared_ptr<NMR::COpcPackageReader88, std::share
                  .
#5 0x7f234427a016 in std::_Sp_counted_ptr_inplace<NMR::COpcPackageReader, std::allocator<NMR::COpcPackageReader
              gnu_cxx::_Lock_policy)2>::_Sp_counted_ptr_inplace<std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<MMR::CModelReaderWarnings>6,
   red_ptr<NMR::CProgressMonitor>6>(std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6,
  red_ptr<NMR::CProgressMonitorb>(std::allocator<NMM::CUpcPackageReader>, std::shared_ptr<NMR::CImportstream>,
std::shared_ptr<NMC::CModleReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-
gnu/9/../../include/c++/9/
bits/shared_ptr_base.h:548:4
#6 0x752344279972 in std::_shared_count<(__gnu_cxx::_Lock_policy)2>::__shared_count<NMR::COpcPackageReader,
std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6,
std::shared_ptr<NMR::COpcPackageReader>
    std::shared ptr<NMR::CProg
    ressMonitor>6>(NMR::COpcPackageReader*8, std::_Sp_alloc_shared_tag<std::allocator<NMR::COpcPackageReader> >,
   std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6)
 std::shared_ptr<NNR::CImportStream>6, std::shared_ptr<NNR::CModelReaderWarnings>6, std::shared_ptr<NNR::CProgressMonito
//usr/bin/./lib/gcc/x86_64-li
nux-gnu/9/../.././include/c++/9/bits/shared_ptr_base.h:680:6
#7 0x7f23442795e2 in std::_shared_ptr<NMR::COpcPackageReader,
(_gnu_cxx::Lock_policy)2>:_shared_ptr<Std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgress
Monitor>80:(std::Sp_alloc_shared_tagestd::allocator<NMR::COpcPackageReader> , std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) //usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/
ex-/0/bits/cbayed_ptr<NMR: pace_btl246:14</pre>
  std::shared_ptr<nmmk::Camportstream>0, std::shared_ptr<nmmk::cmodetexaderwarnings>0, std::shared_ptr<nmmk::CProgressmoiltor>0
[std::Sp_alloc_shared
_tagsstd::allocator<nmmk::COpcPackageReader> >, std::shared_ptr<nmmk::CImportStream>0, std::shared_ptr<nmmk::CModelReaderWarnings>0,
std::shared_ptr<nmmk::CProgressMonitor>0 / Usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/c++/9/bits/shared_ptr.h:359:4
#9 0x7f2344278fb8 in std::shared_ptr<nmmk::COpcPackageReader> std::allocator<nmmk::COpcPackageReader>, std::shared_ptr<nmmk::CModelReaderWarnings>0,
std::shared_ptr<nmmk::CProgressmoiltor>0
  sMonitors&c(std::allocator<NMR::COpcPackageReader> const0, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CMmodelReaderWarnings>0, std::shared_ptr<NMR::CProgressMonitor>0) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../include/c++/9/bits/shared_pt
    r.h:701:14
  r.n:/01:14
#10 0x7f2344273877 in std::shared_ptr<NMR::COpcPackageReader> std::make_shared<NMR::COpcPackageReader,
std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6>
 std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6>
(std::shared_ptr<NMR::CImportStr
eam>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-
gnu/9/../../../include/c+*/9/bits/shared_ptr.h:717:14
#11 0x7f234427244f in NMR::CModelReader_3MF_intve::extract3MF0PCPackage(std::shared_ptr<NMR::CImportStream>)
//boop/assorted_fuzzing/lib3mf/lib3mf-2.0.0/Source/Model/Reader/NMR_ModelReader_3MF_Native.cpp:53:22
#12 0x7f23443cff16 in NMR::CModelReader_3MF.ireadStream(std::shared_ptr<NMR::CImportStream>) //boop/assorted_fuzzing/lib3mf/lib3mf-
2.0.0/Source/Model/Reader_NMR_ModelReader_3MF.cpp:130:32
#13 0x7f234412a872 in Lib3MF::Impl::CReader::ReadFromBuffer(unsigned long, unsigned char const*) //boop/assorted_fuzzing/lib3mf/lib3mf-
#13 0x7f234412a872 in Lib3MF::Impl::CReader::ReadFromBuffer(unsigned long, unsigned char const*) //boop/assorted_fuzzing/lib3mf/lib3m
2.0.0/Source/API/lib3mf_reader.cpp:87:12
#14 0x7f234454055a in lib3mf_reader_readfrombuffer //boop/assorted_fuzzing/lib3mf/lib3mf-
2.0.0/build/Autogenerated/Source/Implementation/lib3mf_interfacewrapper.cpp:381:13
#15 0x55247e in Lib3MF::CReader::ReadFromBuffer(Lib3MF::CInput/vector</ri>
2.0.0/build/Autogenerated/Bindings/Cpp/lib3mf_implicit.hpp:1622:14
#16 0x55173d in LLVMFuzzerTestOneInput //boop/assorted_fuzzing/lib3mf/./fuzz_3mf_to_stl.cpp:88:15
#17 0x45bcf1 in fuzzer::Fuzzer::ExecuteCallback(unsigned char const*, unsigned long)
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x45bcf1)
#18 0x447462 in fuzzer::Ruzoenstl/3mf_to_stl.bin+0x45bcf1)
#19 0x44cf16 in fuzzer::FuzzerDriver(int*, char***, int (*)(unsigned char const*, unsigned long))
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x44cf16)
#20 0x4752437e80b2 in _libc_start_main /build/glibc-ZN95T4/glibc-2.31/csu/../csu/libc-start.c:308:16
#22 0x421b2d in _start (//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl/3mf_fo_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_fo_stl/3mf_to_stl/3mf_fo_stl/3mf_fo_stl/3mf_fo_stl/3mf_fo_stl/3mf_fo_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/
 2.0.0/Source/Common/OPC/NNR_OpcPackageReader.cpp:216:4
#5 0x7f234422251b in NMR::COpcPackageReader::COpcPackageReader(std::shared_ptr<NMR::CImportStream>,
  std::shared_ptr<NMR::CModelReaderWarnings>, std::shared_ptr<NMR::CProgressMonitor>) //boop/assorted_fuzzing/lib3mf/lib3mf-
2.0.0/Source/Common/OPC/NMR_OpcP
ackageReader.cpp:179:4
#6 0x7f234427af0c in void __gnu_cxx::new_allocator<NMR::COpcPackageReader>::construct<NMR::COpcPackageReader,
   std::shared_ptr<NMR::CImportStream>8, std::shared_ptr<NMR::CModelReaderWarnings>8, std::shared_ptr<NMR::CProgressMonitor>8>(NMR::COpcPackageReader*,
       std::shared ptr<NMR::CImportStream>6, std::shared ptr<NMR::CModelReaderWarnings>6, std::shared ptr<NMR::CProgressMonitor>6)
  /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/c++/9/ext/new_allocator.h:147:23 #7 0x7f234427a7d9 in void std::allocator_traits<std::allocator<NMR::COpcPackageReader> >::construct<NMR::COpcPackageReader>
  ***/ ***/12342/3/09 in void std.:attocator_claifs/std.:attocator_attocator_std.:attocator_attocator_std.:attocator_attocator_std.:attocator_attocator_std.:attocator_attocator_std.:attocator_attocator_std.:attocator_attocator_attocator_attocator_std.:attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attocator_attoca
    .h:484:8
            #8 0x7f234427a016 in std::_Sp_counted_ptr_inplace<NMR::COpcPackageReader, std::allocator<NMR::COpcPackageReader>,
_gnu_cxx::_Lock_policy)2>::_Sp_counted_ptr_inplace<std::shared_ptr<NMR::CImportStream>&, std::shared_ptr<NMR::CModelReaderWarnings>&,
  std::shared_ptr<NMR::CProgressMonitor>6>(std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CMnGelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../include/c++/9/ bits/shared_ptr_base.h:548:4 #9 @x7f2344279972 in std::__shared_count<(__gnu_cxx::_Lock_policy)2>::__shared_count<NMR::COpcPackageReader,
  #9 0x7f2344279972 in std::__shared_count<(__gnu_cxx::_Lock_policy)2>::__shared_count<NMR::COpcPackageReader, std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6,
```

```
nux-gnu/9/../../include/c++/9/bits/shared_ptr_base.h:680:6
#10 0x7f23442795e2 in std::__shared_ptrxNMR::COpcPackageReader,
(__gnu_cxx::_lock_policy)2::__shared_ptrxSMd::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6,
std::shared_ptrxNMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgres
sMonitor>6>(std::_Sp_alloc_shared_tag<std::allocator<NMR::COpcPackageReader> >, std::shared_ptr<NMR::CImportStream>6,
  std::shared_ptr<NMR::CModelReaderWarnings>8, std::shared_ptr<NMR::CProgressMonitor>8) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../include /c++/9/bits/shared_ptr_base.h:1344:14
    #11 0x7f2344279317 in std::shared_ptr<NMR::COpcPackageReader>::shared_ptr<std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6> (std::Sp_alloc_share
    d_tag<std::allocator<nMR::COpcPackageReader> >, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../.include/c++/9/bits/shared_ptr.h:359:4 #12 0x7f2344278fb8 in std::shared_ptr<NMR::COpcPackageReader> std::allocate_shared<NMR::COpcPackageReader,
  std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>&, std::shared_ptr<NMR::CModelReaderWarnings>&, std::shared_ptr<NMR::CProgre
ssMonitor>&>(std::allocator<NMR::COpcPackageReader> const&, std::shared_ptr<NMR::CImportStream>&,
  _______std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CMportStream>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/c++/9/bits/shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../
    #13 0x7f2344273877 in std::shared_ptr<NMR::COpcPackageReader> std::make_shared<NMR::COpcPackageReader, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6> (std::shared_ptr<NMR::CImportStr
 (Std::Shared_ptr<NMR::ClmportStr eam>5, std::Shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../include/c++/9/bits/shared_ptr.h:717:14 #14 0x7f234427244f in NMR::CModelReader_3MF_Native::extract3MFOPCPackage(std::shared_ptr<NMR::CImportStream>) //boop/assorted_fuzzing/lib3mf-2.0.0/Source/Model/Reader/NMR_ModelReader_3MF_Native.cpp:53:22 #15 0x7f23443cff16 in NMR::CModelReader_3MF::readStream(std::shared_ptr<NMR::CImportStream>) //boop/assorted_fuzzing/lib3mf-lib3mf-2.0.0/Source/ModelReader_3MF::cy=3MF::cy=3MF::CImportStream>) //boop/assorted_fuzzing/lib3mf-2.0.0/Source/ModelReader_NMR_ModelReader_3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF::cy=3MF:
  2.0.0/Source/Model/Reader/NMR_ModelReader_3MF.cpp:130:32
#16 0x7f234412a872 in Lib3MF::Impl::CReader::ReadFromBuffer(unsigned long, unsigned char const*) //boop/assorted_fuzzing/lib3mf/lib3mf-
2.0.0/Source/API/lib3mf_reader.cpp:87:12
#17 0x7f234454055a in lib3mf_reader_readfrombuffer //boop/assorted_fuzzing/lib3mf/lib3mf-
2.0.0/build/Autogenerated/Source/Implementation/lib3mf_interfacewrapper.cpp:381:13
#18 0x55247e in lib3MF::CReader::ReadFromBuffer(Lib3MF::CInputVector<unsigned char> const0) //boop/assorted_fuzzing/lib3mf/./lib3mf-
  18 0x552-40: In Linsum::Leader::Readeromsurrer(Linsum::Linputvector<unsigned cnar> consta) //nooq
2.0.0/build/Autogenerated/Bindings/Cpp/libinmf_implicit.hpp::1622:14
#19 0x55173d in LLVMFuzzerTestOneInput //boop/assorted_fuzzing/lib3mf/./fuzz_3mf_to_stl.cpp:88:15
#20 0x45bcf1 in fuzzer::Fuzzer::ExecuteCalback(unsigned char const-, unsigned long)
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin-0x45bcf1)
#21 0x447462 in fuzzer::RunOneTest(fuzzer::Fuzzer*, char const*, unsigned long)
  #21 0x447402 In fuzzer:.Numonerest(tuzzer*, that counts, unsigned tong)
(//boop/assorted_fuzzing/libāmf/3mf_to_stl/3mf_to_stl.bin+0x447462)
#22 0x44cf16 in fuzzer::FuzzerDriver(int*, char***, int (*)(unsigned char const*, unsigned long))
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl.bin+0x44cf16)
#23 0x475bd2 in main (//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x475bd2)
#24 0x7f23437e80b2 in __libc_start_main /build/glibc-ZN95T4/glibc-2.31/csu/./csu/libc-start.c:308:16
    previously allocated by thread TO here:
  previously allocated by thread T0 here:
#0 0x52185d in malloc (//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x52185d)
#1 0x7f2343bb65a8 in _zip_source_new //boop/assorted_fuzzing/lib3mf/libzip/libzip-1.7.3/lib/zip_source_function.c:79:32
#2 0x7f2343bb633f in zip_source_function_create //boop/assorted_fuzzing/lib3mf/libzip/libzip-1.7.3/lib/zip_source_function.c:54:15
#3 0x7f2344216e9 in NMR::COpcPackageReader::COpcPackageReader(std::shared_ptr<NMR::CImportStream>,
std::shared_ptr<NMR::CMportStream>, std::shared_ptr<NMR::COpcPackageReader::construct<nMR::COpcPackageReader;
std::shared_ptr<Mm::CImportStream>6, std::shared_ptr<NMR::CMportStream>6, std::shared_p
  std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6)
/usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/c++/9/ext/new_allocator.h:147:23
#5 0x7f234427a7d9 in void std::allocator_traits<std::allocator<NMR::COpcPackageReader> >::construct<NMR::COpcPackageReader,
  std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::COmcPackageReader*, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::ComportStream>6, std::shared_ptr<NMR::ComportS
  #6 0x7f234427a016 in std::_Sp_counted_ptr_inplace<NMR::COpcPackageReader, std::allocator<NMR::COpcPackageReader>,
(__gnu_cxx::_Lock_policy)2>::_sp_counted_ptr_inplace<std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6,
 (__gnu_cxx::_Lock_policy)2>::_Sp_counted_ptr_inplace<sto::snareu_pir\nmmn:.cimportsiteam>0, sto::snareu_pir\nmmn:.cimportsiteam>0, sto::snared_ptr<NMR::CProgressMonitor>6>(std::allocator<NMR::COpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../.../.../include/c++/9/ bits/shared_ptr_base.h:548:4 #7 0x7f2344279972 in std::__shared_count<(__gnu_cxx::_Lock_policy)2>::__shared_count<(NMR::COpcPackageReader, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::CMMR::C
std::allocatorxNNR::COpcPackageReader>, std::shared_ptr<NNR::CImportStream>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CProg
ressMonitor>\(\tilde{0}\), rcsNR::COpcPackageReader*\(\tilde{0}\), std::shared_ptr<NNR::COpcPackageReader> >,
std::shared_ptr<NNR::CImportStream>\(\tilde{0}\), std::shared_ptr<NNR::COpcPackageReader> >,
std::shared_ptr<NNR::CImportStream>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CProgressMonitor>\(\tilde{0}\))
sur/bin/.../i.i/licyCax66.64-li
nux-gnu/9/.../.../include/c++/9/bits/shared_ptr_base.h:680:6

#8 0xff23442795e2 in std::_shared_ptr<NNR::COpcPackageReader,
(_gnu_cxx::_Lock_policy)2>::__shared_ptr<NNR::COpcPackageReader>, std::shared_ptr<NNR::CImportStream>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::COpcPackageReader> >, std::shared_ptr<NNR::CImportStream>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReaderWarnings>\(\tilde{0}\), std::shared_ptr<NNR::CModelReader>, std::shared_ptr<NNR::CModelReader>, std::shared_ptr<NNR::CModelReader>, std::shared_ptr<NNR::COpcPackageReader>, std::shared_ptr<NNR::COpcPackageReader>, std::shared_ptr<NNR::CModelReader>, std::shared_ptr<NNR::COpcPackageReader>, std::shared_ptr<NNR::COpcPackageReader>, std::shared_ptr<NNR::CModelReader>, std::shared_ptr<NNR:
  std::Slateu_ptr<nwmm::Carportstream/s, std::Slateu_ptr<nwmm:.cwodetreaderwarnings>6, std::Slateu_ptr<nwmm::Crogresswonitoutas
(std::Sp_alloc_shared
_tag<std::allocator<NMR::COpcPackageReader> >, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6,
std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../../include/c++/9/bits/shared_ptr.h:359:4
#10 0x7f2344278fb8 in std::shared_ptr<NMR::COpcPackageReader> std::allocate_shared<NMR::COpcPackageReader,
std::shared_ptr<NMR::CDpcPackageReader>, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CModelReaderWarnings>6,
std::shared_ptr<NMR::CProgre</pre>
  ssMonitor>6>(std::allocatorxNMR::COpcPackageReader> const6, std::shared_ptr<NMR::CImportStream>6, std::shared_ptr<NMR::CMpcPackageReader> std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-gnu/9/../../.include/c++/9/bits/shared_p
     tr.h:701:14
    #11 0xff2344273877 in std::shared_ptr<NMR::COpcPackageReader> std::make_shared<NMR::COpcPackageReader, std::shared_ptr<NMR::CImportStream>8, std::shared_ptr<NMR::CModelReaderWarnings>8, std::shared_ptr<NMR::CProgressMonitor>8>
  (std::shared_ptr<NMR::CImportStr
eam-8, std::shared_ptr<NMR::CProgressMonitor>6) /usr/bin/../lib/gcc/x86_64-linux-
gnu/9/../../../../include/c+v/9/bits/shared_ptr.h:717:14
#12 0x7f234427244f in NMR::CModelReader_3MF_Native::extract3MFOPCPackage(std::shared_ptrNMR::CImportStream>)
  //boop/assorted_fuzzing/lib3mf-2.0.0/Source/Model/Reader/NMR_ModelReader_3MF_Native.cpp:53:22
#13 0x7f23443cff16 in NMR::CModelReader_3MF::readStream(std::shared_ptr<NMR::CImportStream>) //boop/assorted_fuzzing/lib3mf/lib3mf-2.0.0/Source/ModelReader_NMR_ModelReader_3MF.cpp:130:32
  #14 0x55247e in Lib3MF::CReader::ReadFromBuffer(Lib3MF::CInputVector<unsigned char const*) //boop/assorted_fuzzing/lib3mf/./lib3mf-
#16 0x55247e in Lib3MF::CReader::ReadfromBuffer(prophylassorted_fuzzing/lib3mf/lib3mf-
#16 0x55247e in Lib3MF::CReader:ReadfromBuffer //boop/assorted_fuzzing/lib3mf/lib3mf-
#16 0x55247e in Lib3MF::CReader::ReadFromBuffer(Lib3MF::CInputVector<unsigned char const6) //boop/assorted_fuzzing/lib3mf/./lib3mf-
 #16 0x55247e in Lib3MF::CReader::ReadfromBuffer(Lib3MF::CInputVector</ri>
2.0.9/build/Autogenerated/Bindings/Cpp/lib3mf, implicit.hpp::1622:14
#17 0x55173d in LLVMFuzzerTestOneInput //boop/assorted_fuzzing/lib3mf/./fuzz_3mf_to_stl.cpp:88:15
#18 0x455cf1 in fuzzer::EvacuteGallback(unsigned char const*, unsigned long)
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x45bcf1)
#19 0x447462 in fuzzer::RunOneTest(fuzzer::Fuzzer*, char const*, unsigned long)
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x447462)
#20 0x44cf16 in fuzzer::FuzzerDriver(int*, char***, int (*)(unsigned char const*, unsigned long))
(//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl.bin+0x4dcf16)
#21 0x475bd2 in main (//boop/assorted_fuzzing/lib3mf/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/3mf_to_stl/ibc-z_stl/csu/../csu/libc-start.c:308:16
```

Timeline

2021-01-14 - Vendor Disclosure 2021-03-10 - Public Release

CREDIT

Discovered by Lilith >_> of Cisco Talos.

VULNERABILITY REPORTS PREVIOUS REPORT NEXT REPORT

TALOS-2020-1225 TALOS-2021-1226

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