

New issue

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out-of-memory #747



WorldExecute opened this issue on Aug 28 · 0 comments

WorldExecute commented on Aug 28

Hi, i find 3 out-of-memory errors in Bento4. I saved all my test files [here](#)

Here are the details.

For mp4audioclip with [test input](#):

```
test_1:
=====
==6930==ERROR: AddressSanitizer: allocator is out of memory trying to allocate 0xffffffff1e0 bytes
    #0 0x4c560d in operator new(unsigned long) (/Bento4/install-asan/bin/mp4audioclip+0x4c560d)
    #1 0x5dce28 in AP4_Array<AP4_TrunAtom::Entry>::EnsureCapacity(unsigned int)
/Bento4/Source/C++/Core/AP4Array.h:172:25
    #2 0x5dce28 in AP4_Array<AP4_TrunAtom::Entry>::SetItemCount(unsigned int)
/Bento4/Source/C++/Core/AP4Array.h:210:25
    #3 0x5dce28 in AP4_TrunAtom::AP4_TrunAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&) /Bento4/Source/C++/Core/AP4TrunAtom.cpp:127:15
    #4 0x5dc1f9 in AP4_TrunAtom::Create(unsigned int, AP4_ByteStream&)
/Bento4/Source/C++/Core/AP4TrunAtom.cpp:51:16
    #5 0x50e852 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/AP4AtomFactory.cpp:438:20
    #6 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/AP4AtomFactory.cpp:234:14
    #7 0x5240d7 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/AP4ContainerAtom.cpp:194:12
    #8 0x5231a3 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/AP4ContainerAtom.cpp:139:5
    #9 0x5231a3 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/AP4ContainerAtom.cpp:88:20
    #10 0x50dcd2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/AP4AtomFactory.cpp:816:20
    #11 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/AP4AtomFactory.cpp:234:14
    #12 0x5240d7 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/AP4ContainerAtom.cpp:194:12
    #13 0x5231a3 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/AP4ContainerAtom.cpp:139:5
    #14 0x5231a3 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
```

```

AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#15 0x50dcd2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#16 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#17 0x541dd9 in AP4_DrefAtom::AP4_DrefAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4DrefAtom.cpp:84:16
#18 0x5416e8 in AP4_DrefAtom::Create(unsigned int, AP4_ByteStream&, AP4_AtomFactory&)
/Bento4/Source/C++/Core/Ap4DrefAtom.cpp:50:16
#19 0x50e924 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:580:20
#20 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#21 0x523ea7 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
#22 0x5231a3 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
#23 0x5231a3 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#24 0x50dcd2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#25 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#26 0x5240d7 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
#27 0x5231a3 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
#28 0x5231a3 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#29 0x50dcd2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#30 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#31 0x541dd9 in AP4_DrefAtom::AP4_DrefAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4DrefAtom.cpp:84:16
#32 0x5416e8 in AP4_DrefAtom::Create(unsigned int, AP4_ByteStream&, AP4_AtomFactory&)
/Bento4/Source/C++/Core/Ap4DrefAtom.cpp:50:16
#33 0x50e924 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:580:20
#34 0x50bab9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#35 0x523ea7 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12

```

```

==6930==HINT: if you don't care about these errors you may set allocator_may_return_null=1
SUMMARY: AddressSanitizer: out-of-memory (/Bento4/install-asan/bin/mp4audioclip+0x4c560d) in
operator new(unsigned long)
==6930==ABORTING

```

```
test_2:
```

```

=====
==56759==ERROR: AddressSanitizer: allocator is out of memory trying to allocate 0xc5d400b8 bytes
#0 0x4c571d in operator new[](unsigned long) (/Bento4/install-asan/bin/mp4audioclip+0x4c571d)
#1 0x53dd69 in AP4_DataBuffer::ReallocateBuffer(unsigned int)
/Bento4/Source/C++/Core/Ap4DataBuffer.cpp:210:28
#2 0x53dd69 in AP4_DataBuffer::SetDataSize(unsigned int)

```

/Bento4/Source/C++/Core/Ap4DataBuffer.cpp:151:33

```
==56759==HINT: if you don't care about these errors you may set allocator_may_return_null=1
SUMMARY: AddressSanitizer: out-of-memory (/Bento4/install-asan/bin/mp4audioclip+0x4c571d) in
operator new[](unsigned long)
==56759==ABORTING
```

For mp4dump with [test input](#):

```
=====
==108091==ERROR: AddressSanitizer: allocator is out of memory trying to allocate 0xf50000a0 bytes
    #0 0x4c562d in operator new(unsigned long) (/Bento4/install-asan/bin/mp4dump+0x4c562d)
    #1 0x5c35f8 in AP4_Array<AP4_TrunAtom::Entry>::EnsureCapacity(unsigned int)
/Bento4/Source/C++/Core/Ap4Array.h:172:25
    #2 0x5c35f8 in AP4_Array<AP4_TrunAtom::Entry>::SetItemCount(unsigned int)
/Bento4/Source/C++/Core/Ap4Array.h:210:25
    #3 0x5c35f8 in AP4_TrunAtom::AP4_TrunAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&) /Bento4/Source/C++/Core/Ap4TrunAtom.cpp:127:15
    #4 0x5c29c9 in AP4_TrunAtom::Create(unsigned int, AP4_ByteStream&)
/Bento4/Source/C++/Core/Ap4TrunAtom.cpp:51:16
    #5 0x4e5252 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:438:20
    #6 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
    #7 0x4f8667 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
    #8 0x4f7733 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
    #9 0x4f7733 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
    #10 0x4e46d2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
    #11 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
    #12 0x4f8667 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
    #13 0x4f7733 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
    #14 0x4f7733 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
    #15 0x4e46d2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
    #16 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
    #17 0x516429 in AP4_DrefAtom::AP4_DrefAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4DrefAtom.cpp:84:16
    #18 0x515d38 in AP4_DrefAtom::Create(unsigned int, AP4_ByteStream&, AP4_AtomFactory&)
/Bento4/Source/C++/Core/Ap4DrefAtom.cpp:50:16
    #19 0x4e5324 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:580:20
    #20 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
    #21 0x4f8437 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
```

```

long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
#22 0x4f7733 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
#23 0x4f7733 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#24 0x4e46d2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#25 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#26 0x4f8667 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
#27 0x4f7733 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
#28 0x4f7733 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#29 0x4e46d2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#30 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#31 0x4f8667 in AP4_ContainerAtom::ReadChildren(AP4_AtomFactory&, AP4_ByteStream&, unsigned
long long) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:194:12
#32 0x4f7733 in AP4_ContainerAtom::AP4_ContainerAtom(unsigned int, unsigned long long, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:139:5
#33 0x4f7733 in AP4_ContainerAtom::Create(unsigned int, unsigned long long, bool, bool,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4ContainerAtom.cpp:88:20
#34 0x4e46d2 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned int, unsigned
int, unsigned long long, AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:816:20
#35 0x4e24b9 in AP4_AtomFactory::CreateAtomFromStream(AP4_ByteStream&, unsigned long long&,
AP4_Atom*&) /Bento4/Source/C++/Core/Ap4AtomFactory.cpp:234:14
#36 0x516429 in AP4_DrefAtom::AP4_DrefAtom(unsigned int, unsigned char, unsigned int,
AP4_ByteStream&, AP4_AtomFactory&) /Bento4/Source/C++/Core/Ap4DrefAtom.cpp:84:16

==108091==HINT: if you don't care about these errors you may set allocator_may_return_null=1
SUMMARY: AddressSanitizer: out-of-memory (/Bento4/install-asan/bin/mp4dump+0x4c562d) in operator
new(unsigned long)
==108091==ABORTING

```

You can use the following setp to reproduce all the problems.

```

git clone https://github.com/axiomatic-systems/Bento4
cd Bento4/
mkdir check && cd check
cmake ../ -DCMAKE_C_COMPILER=clang -DCMAKE_CXX_COMPILER=clang++ -DCMAKE_C_FLAGS="-
fsanitize=address" -DCMAKE_CXX_FLAGS="-fsanitize=address" -DCMAKE_BUILD_TYPE=Release
make -j
git clone https://github.com/WorldExecute/files.git
./mp4audioclip ./files/Bento4/mp4audioclip/out-of-memory/test_1 /dev/null
./mp4dump ./files/Bento4/mp4dump/out-of-memory/test_1

```

Thanks for your time!

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

