

Doomsday Engine - Bug #2268

Build Error - incorp assimp commit (PPC)

2018-01-24 04:20 - caseyac

Status:	Closed	Start date:	2018-01-24
Priority:	Normal	% Done:	100%
Assignee:	skyjake		
Category:	3rd party compatibility		
Target version:			
Description			
assimp included with DE 2.0.0 to 2.1 causes a build fail on PowerPC (A-eon Cyrus Plus, based on Freescale P5020, running Ubuntu 16.04.3 LTS, gcc 5.3.1)			
This issue was closed via assimp commit f0d03ec (https://github.com/assimp/assimp/commit/f0d03ec6b8400cfde29bc460ad8dd69d6623be9c). Could you incorporate this into Doomsday?			
Build fail:			
<pre>/home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp: In instantiation of 'std::size_t Assimp::Copy(uint8_t*, T&) [with T = short unsigned int; std::size_t = unsigned int; uint8_t = unsigned char]': /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:95:50: r equired from here /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:87:27: e rror: lvalue required as unary '&' operand std::memcpy(data, &AI_BE(field), sizeof(field)); return sizeof(field); ^ /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp: In inst antiation of 'std::size_t Assimp::Copy(uint8_t*, T&) [with T = unsigned int; std::size_t = unsigne d int; uint8_t = unsigned char]': /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:96:50: r equired from here /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:87:27: e rror: lvalue required as unary '&' operand /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp: In inst antiation of 'std::size_t Assimp::Copy(uint8_t*, T&) [with T = int; std::size_t = unsigned int; ui nt8_t = unsigned char]': /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:110:48: required from here /home/casey/Documents/Sources/doomsday-2.0.0/doomsday/external/assimp/code/Bitmap.cpp:87:27: e rror: lvalue required as unary '&' operand sdk/libgui/assimp/code/CMakeFiles/assimp.dir/build.make:518: recipe for target 'sdk/libgui/ass imp/code/CMakeFiles/assimp.dir/Bitmap.cpp.o' failed make[2]: * [sdk/libgui/assimp/code/CMakeFiles/assimp.dir/Bitmap.cpp.o] Error 1 CMakeFiles/Makefile2:592: recipe for target 'sdk/libgui/assimp/code/CMakeFiles/assimp.dir/all' failed make[1]: [sdk/libgui/assimp/code/CMakeFiles/assimp.dir/all] Error 2 Makefile:151: recipe for target 'all' failed make: ** [all] Error 2</pre>			

History

#1 - 2018-01-24 12:29 - skyjake

- Category set to 3rd party compatibility
- Status changed from New to In Progress
- Assignee set to skyjake
- Target version set to 72

I'll check out the patch. If it can't be incorporated as-is, maybe the version of Assimp that Doomsday uses could be upgraded as a whole.

#2 - 2018-01-24 22:27 - skyjake

I've now patched the Assimp used in both the stable and master branches of Doomsday. Could you give one or both of these a try and see if the problem has been solved, please?

#3 - 2018-01-24 22:27 - skyjake

- % Done changed from 0 to 100

#4 - 2018-02-07 22:39 - caseyac

Sorry for the delay! I tried build 2586; unfortunately it was not successful.

Build fail:

```
[ 22%] Building CXX object sdk/libgui/assimp/code/CMakeFiles/assimp.dir/SIBImporter.cpp.o
<command-line>:0:0: warning: "DENG_LIBRARY_DIR" redefined
<command-line>:0:0: note: this is the location of the previous definition
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/SIBImporter.cpp:88:16: warning: 'SIBPair
makePair(uint32_t, uint32_t)' defined but not used [-Wunused-function]
static SIBPair makePair(uint32_t a, uint32_t b) { return (a<b) ? SIBPair(a, b)
^
[ 22%] Building CXX object sdk/libgui/assimp/code/CMakeFiles/assimp.dir/gITFImporter.cpp.o
<command-line>:0:0: warning: "DENG_LIBRARY_DIR" redefined
<command-line>:0:0: note: this is the location of the previous definition
In file included from /home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.h:65:0,
from /home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFImporter.cpp:55:
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.inl: In member function 'void
gITF::Asset::ReadBinaryHeader(Assimp::IOStream&)':
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.inl:906:5: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.version);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.inl:912:5: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.sceneFormat);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.inl:917:5: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.length);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAsset.inl:918:5: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.sceneLength);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAssetWriter.inl: In member function 'void
gITF::AssetWriter::WriteBinaryData(Assimp::IOStream*, size_t)':
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAssetWriter.inl:397:9: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.version);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/gITFAssetWriter.inl:400:9: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.length);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
```

```

/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:403:9: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.sceneLength);
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/ByteSwapper.h:217:24: error: 'ByteSwap' has not
been declared # define AI_SWAP4(p) ByteSwap::Swap4(&(p))
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:406:9: note: in expansion of macro
'AI_SWAP4'
AI_SWAP4(header.sceneFormat);
^
In file included from /home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.h:87:0,
from /home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFImporter.cpp:57:
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl: In instantiation of
'rapidjson::Value& glTF::[anonymous]::MakeValue(rapidjson::Value&, float (&)[N], rapidjson::MemoryPoolAllocator<>&) [with unsigned int N = 4u;
rapidjson::Value = rapidjson::GenericValue<rapidjson::UTF8<> >]':
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:162:81: required from here
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:59:31: warning: comparison
between signed and unsigned integer expressions [-Wsign-compare]
for (int i = 0; i < N; ++i) {
^
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl: In instantiation of
'rapidjson::Value& glTF::[anonymous]::MakeValue(rapidjson::Value&, float (&)[N], rapidjson::MemoryPoolAllocator<>&) [with unsigned int N = 16u;
rapidjson::Value = rapidjson::GenericValue<rapidjson::UTF8<> >]':
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:243:73: required from here
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:59:31: warning: comparison
between signed and unsigned integer expressions [-Wsign-compare]
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl: In instantiation of
'rapidjson::Value& glTF::[anonymous]::MakeValue(rapidjson::Value&, float (&)[N], rapidjson::MemoryPoolAllocator<>&) [with unsigned int N = 3u;
rapidjson::Value = rapidjson::GenericValue<rapidjson::UTF8<> >]':
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:248:83: required from here
/home/casey/Documents/Sources/doomsday-2.1.0-build2586/doomsday/external/assimp/code/glTFAssetWriter.inl:59:31: warning: comparison
between signed and unsigned integer expressions [-Wsign-compare]
sdk/libgui/assimp/code/CMakeFiles/assimp.dir/build.make:2270: recipe for target 'sdk/libgui/assimp/code/CMakeFiles/assimp.dir/glTFImporter.cpp.o'
failed
make2: * [sdk/libgui/assimp/code/CMakeFiles/assimp.dir/glTFImporter.cpp.o] Error 1
CMakeFiles/Makefile2:592: recipe for target 'sdk/libgui/assimp/code/CMakeFiles/assimp.dir/all' failed
make1: [sdk/libgui/assimp/code/CMakeFiles/assimp.dir/all] Error 2
Makefile:151: recipe for target 'all' failed
make: ** [all] Error 2
casey@UTOPIA-DEV:~/Documents/Sources/doomsday$

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#5 - 2018-10-27 16:03 - skyjake

- Status changed from In Progress to Closed
- Target version deleted (72)

Perhaps this should be revisited when Doomsday's Assimp is upgraded to the latest stable version.