

Packages - Bug #2374

Bug # 2521 (fixed): [blender]: needs rebuild x86_64

[blender]: armv7h needs rebuild

2019-07-13 12:04 AM - bill-auger

Status:	fixed	% Done:	0%
Priority:	broken		
Assignee:	bill-auger		
Category:			
Description			
on x86_64			
\$ blender			
blender: error while loading shared libraries: libosdGPU.so.3.3.3: cannot open shared object file: No such file or directory			

History

#1 - 2019-08-02 08:34 AM - bill-auger

i forgot to update this one - i built the latest version in arch v2.79b-git7 but i did not publish it because it looked unreasonably large - 250MB for the binary package with the installed size of 1.5GB and 500MB for the source-ball - i assumed something is not quite right - the arch package is only 44MB/217MB installed

anyways, it needs a rebuild now because of libopenimageio

```
$ blender
blender: error while loading shared libraries: libOpenImageIO.so.1.8:
cannot open shared object file: No such file or directory
```

#2 - 2019-08-02 07:43 PM - bill-auger

freemor got this error:

```
| 102 | #error ABI <= 3 is deprecated, define OPENVDB_USE_DEPRECATED_ABI to suppress this error
|     | ^~~~~
| make[2]: *** [intern/openvdb/CMakeFiles/bf_intern_openvdb.dir/build.make:63: intern/openvdb/CMakeFiles/bf_
intern_openvdb.dir/intern/openvdb_dense_convert.cc.o] Error 1
| make[1]: *** [CMakeFiles/Makefile2:1747: intern/openvdb/CMakeFiles/bf_intern_openvdb.dir/all] Error 2
| make: *** [Makefile:163: all] Error 2
| ==> ERROR: A failure occurred in build().
| Aborting...
```

<freemor> tried adding -DOPENVDB_USE_DEPRECATED_ABI=ON
<freemor> to the cmake line in the blender build .. that didn't help, same error.

i looked at the history of the blender PKGBUILD and i noticed a couple things that maybe relevant

<https://git.parabola.nu/abslibre.git/commit/libre/blender/PKGBUILD?id=59cad02d19a88411cedbfc6f8ba21e4cf041321d>
on 2018-06-25 ovruni removed this sed command:

```
- # openvdb 5 fix
- sed -i "s/OPENVDB_LIBRARY_MAJOR_VERSION_NUMBER == 3/OPENVDB_LIBRARY_MAJOR_VERSION_NUMBER >= 3/g" intern/ope
nvdb/intern/openvdb_writer.cc
```

<https://git.parabola.nu/abslibre.git/commit/libre/blender/PKGBUILD?id=424bd40d884f503692d2bcab945375ecae07542e>
on 2019-02-02 i added this config switch:

```
+ -DWITH_OPENVDB_3_ABI_COMPATIBLE=ON \
```

maybe something like that previous sed command needs to go back in; or maybe the config switch i added is the cause of the error freemor saw, or is conflicting with the one freemor added

#3 - 2019-08-03 01:11 AM - freemor

- % Done changed from 0 to 50

- Assignee set to freemor
- Status changed from confirmed to in progress

Remved:

```
+ -DWITH_OPENVDB_3_ABI_COMPATIBLE=ON \
```

and it built fine.
x86_64 Released
ARM build starting.

Assigning to me for now so I can close if the ARM build works

#4 - 2019-08-03 01:55 AM - freemor

Prepare() fails for ARM:

```
| ==> Starting prepare()...
| Submodule 'release/datafiles/locale' (/startdir/blender-translations.git) registered for path 'release/datafiles/locale'
| Submodule 'release/scripts/addons' (/startdir/blender-addons.git) registered for path 'release/scripts/addons'
| Submodule 'release/scripts/addons_contrib' (/startdir/blender-addons-contrib.git) registered for path 'release/scripts/addons_contrib'
| Submodule 'source/tools' (/startdir/blender-dev-tools.git) registered for path 'source/tools'
| Cloning into '/build/blender/src/blender-2.79.b.git7.054dbb83/release/datafiles/locale'...
| done.
| Unsupported setsockopt level=270 optname=3
| Cloning into '/build/blender/src/blender-2.79.b.git7.054dbb83/release/scripts/addons'...
| done.
| Unsupported setsockopt level=270 optname=3
| Cloning into '/build/blender/src/blender-2.79.b.git7.054dbb83/release/scripts/addons_contrib'...
| done.
| Unsupported setsockopt level=270 optname=3
| Cloning into '/build/blender/src/blender-2.79.b.git7.054dbb83/source/tools'...
| done.
| Unsupported setsockopt level=270 optname=3
| From /build/blender/src/blender-translations
| * branch fec9a7e88c8686830e9210099818a61489e699e4 -> FETCH_HEAD
| Unsupported setsockopt level=270 optname=3
| Submodule path 'release/datafiles/locale': checked out 'fec9a7e88c8686830e9210099818a61489e699e4'
| From /build/blender/src/blender-addons
| * branch 97bd21860f110abb72e9f8ed8530bfe565470264 -> FETCH_HEAD
| Unsupported setsockopt level=270 optname=3
| Submodule path 'release/scripts/addons': checked out '97bd21860f110abb72e9f8ed8530bfe565470264'
| Unsupported setsockopt level=270 optname=3
| Submodule path 'release/scripts/addons_contrib': checked out '68a2d28b24430133946f21d7deede1312d181aaf'
| Unsupported setsockopt level=270 optname=3
| Submodule path 'source/tools': checked out 'a64a4237d820c72c9f22e5ee7069c791f7ceb42b'
| patching file release/scripts/addons/io_mesh_stl/blender_utils.py
| patching file object_facemap_auto/auto_fmap_widgets.py
| patching file intern/cycles/device/device_cpu.cpp
| Hunk #1 FAILED at 719.
| 1 out of 1 hunk FAILED -- saving rejects to file intern/cycles/device/device_cpu.cpp.rej
| ==> ERROR: A failure occurred in prepare().
| Aborting...
==> Copying log and package files out of the chroot...
```

Too tired.. going to bed

#5 - 2019-08-03 12:40 PM - freemor

seems the arm-no-sse2.patch is no longer required. file it was applied against doesn't seem to exist.
Tried without the patch.. got further.. but suddenly seems to depend X11 or part of it

```
|
|
| -- Performing Test SUPPORT_SSE_BUILD
| -- Performing Test SUPPORT_SSE_BUILD - Failed
| -- SSE Support: missing.
| -- Performing Test SUPPORT_SSE2_BUILD
```

```
| -- Performing Test SUPPORT_SSE2_BUILD - Failed
| -- SSE2 Support: missing.
| -- Found Git: /usr/bin/git (found version "2.22.0")
| CMake Error at /usr/share/cmake-3.15/Modules/FindPackageHandleStandardArgs.cmake:137 (message):
|   Could NOT find X11 (missing: X11_X11_LIB)
| Call Stack (most recent call first):
|   /usr/share/cmake-3.15/Modules/FindPackageHandleStandardArgs.cmake:378 (_FPHSA_FAILURE_MESSAGE)
|   /usr/share/cmake-3.15/Modules/FindX11.cmake:366 (find_package_handle_standard_args)
|   CMakeLists.txt:880 (find_package)
|
|
|
| -- Configuring incomplete, errors occurred!
| See also "/build/blender/src/blender-2.79.b.git7.054dbb83/build/CMakeFiles/CMakeOutput.log".
| See also "/build/blender/src/blender-2.79.b.git7.054dbb83/build/CMakeFiles/CMakeError.log".
| ==> ERROR: A failure occurred in build().
|   Aborting...
==> Copying log and package files out of the chroot...
```

#6 - 2019-10-31 11:13 AM - bill-auger

- Related to Bug #2521: [blender]: needs rebuild x86_64 added

#7 - 2019-11-02 10:57 PM - bill-auger

- % Done changed from 50 to 0

- Subject changed from [blender]: needs rebuild to [blender]: armv7h needs rebuild

v2.80 has unsatisfiable deps for armv7h

```
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by alembic
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by openimageio
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by openimageio
| > :: unable to satisfy dependency 'openimageio' required by openshadinglanguage
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by openshadinglanguage
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by openvdb
| > :: unable to satisfy dependency 'ilmbase' required by openexr
| > :: unable to satisfy dependency 'openexr' required by openvdb
```

#8 - 2019-11-02 11:00 PM - bill-auger

- Parent task set to #2521

#9 - 2019-11-30 06:42 AM - bill-auger

the deps problem above was because 'ilmbase' was merged into 'openexr' - thats rebuilt and published now

the arm-no-sse2.patch may still be needed - the original file exists but the defines that the patch commented out are not in that file anymore - they do appear in other files though - one file has them guarded by an #ifdef and the other doesnt, so i made a new patch for that

v2.81 did not have the configuration problem freemore had with the previous version - it got quite far into the build phase; then yay new error:

```
$ grep error: blender-17\2.81-2.parabolal-armv7h-build.log
../source/blender/blenlib/BLI_assert.h:102:37: error: static assertion failed: "DNA struct size verify"
../source/blender/blenlib/BLI_assert.h:102:37: error: static assertion failed: "DNA struct size verify"
```

#10 - 2019-12-15 07:15 AM - bill-auger

the latest v17:2.81.a will need to wait until the new 'openimagedennoise' dependency enters archarm

#11 - 2019-12-18 03:47 AM - bill-auger

- Status changed from in progress to forwarded upstream

as with i686 'openimagedennoise' is optional - the assertion failure is due to the upstream dropping support for any 32-bit CPUs, starting from v2.81 onward - it appears that something new in v2.81 immediately broken 32-bit ARM

upstream BR:

<https://devtalk.blender.org/t/raspbian-blender-as-a-python-module-build-errors/10473>

#12 - 2019-12-21 03:45 AM - bill-auger

- Assignee changed from freemor to bill-auger

i added a new patch suggested on the upstream bug tracker that allowed blender at git tag 'v2.81a', to compile successfully - not sure if the patch will be upstreamed

#13 - 2019-12-21 03:45 AM - bill-auger

- Status changed from forwarded upstream to fixed