

	ub@gmail.com <ub@gmail.com><u>#6</u></ub@gmail.com>					
	Hm, why wouldn tyou want to use 20.0.0? It incorporates the Renderscript libs build for x86 devices. I doubt they will release a 19.1.1 after having released 20.0.0.					
	[Deleted User] <[Deleted User]>#7					
	I'm trying to bend my mind over how this versioning works, so thanks for any help.					
	The main reason would be to avoid changing the targeted API level. We're aiming KitKat and don't want to rock the boat with L, yet.					
	May I ask what values you have in the project.properties (i.e. can we target android-19 but pull in renderscript.target=20 and/or sdk.buildtools=20).					
	target=android-19 android.library=false					
	renderscript.target=19 renderscript.support.mode=true					
	sdk.buildtools=20					
	What is the combo you use?					
	ub@gmail.com <ub@gmail.com> #8</ub@gmail.com>					
	Using build tools versions higher than your target SDK version shouldn to be a problem - AFAIK build tools versioning is only loosely coupled to Android API versions (maybe one of the Android renderscript.target=19 (imho this should always match the Android API level you are targeting) and target=android-19 should be just fine for your case. In fact our configuration looks very significant to be supported by the configurat					
	ub@gmail.com <ub@gmail.com> #9</ub@gmail.com>					
	Ahem, yeah, now that's embarrassing Maybe someone in our team accidentally commented the lines applying the blur effects and checked that into our repository causing everything to we build tools version I just found that lines in our code and readded the blurring code which in turn led to the aforementioned crashes on x86 devices. So we are where we where at the beginn					
	Any news from a Google dev about when this will be fixed?					
	ti@google.com <ti@google.com>#10</ti@google.com>					
	sorry all, this was supposed to be fixed in build tools v20, but the change didn't make it to the right place somehow. I've attached libs that should have the fix-put them in sdk/build-tools/and					
	if these work or don't work, please post in the bug and I'll take another look.					
	I'll follow up with the SDK team to see if we can push a v20.0.1 sometime soon.					
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	0 B ③					
	© deleted 0 B ②					
	[Deleted User] <[Deleted User]> #11					
	Thank you, Tim					
	We needed to place the files in the/20.0.0/ branch instead of android-4.4W but other than that we're now okay to proceed.					
	yx@gmail.com <yx@gmail.com> <u>#12</u></yx@gmail.com>					
	[Comment deleted]					
	mr@gmail.com <mr@gmail.com>#13</mr@gmail.com>					
	This bug still exists when using Android Studio 0.8.11. After updating my build.gradle with "renderscriptTargetApi 19" and "renderscriptSupportMode true" I still get the same error reported a					
	sr@google.com <sr@google.com><u>#14</u></sr@google.com>					
	#13. Did you update your buildtools to 20 or higher? The Target API is not the part that is an issue here.					
	ub@gmail.com <ub@gmail.com> #15</ub@gmail.com>					
	There is only build tools 20 out there - 20.0.1 which should fix the issue according to #10 is unfortunately still not released. So the problem persists - regardless of the API version.					
	[Deleted User] <[Deleted User]> #16					

	In build tools 21.1.0 the fix isn't still released					
ub@gmail.com <ub@gmail.com><u>#17</u></ub@gmail.com>						
	For us 21.1.0 fixed the problem.					
	[Deleted User] <[Deleted User]>#18					
	The size of file libRSSupport.so remained the same since version 20 of build-tools					
	[Deleted User] <[Deleted User]> #19					
	Not working on 21.1.1					
	lu@gmail.com <lu@gmail.com><u>#20</u></lu@gmail.com>					
	Not working on 21.1.2					
	[Deleted User] <[Deleted User]> #21					
	still happening on build tools 21.1.2 I've been running some tests and I'll put logs below.					
	We really would appreciate some attention on the renderscript as we're having a lot of users out there crashing on it, we bought a x86 device for testing, but all we could do was add the code					
	if (Build.CPU_ABI.contains("x86")) // skip renderscript stuff					
	Before each test I uninstalled the app from the device and did a full clean-rebuild to avoid any cache related issues.					
	If I execute the code a second time I usually get the added message: Invalid RS info file /data/data/com.baseapp.eyeem/cache/com.android.renderscript.cache/ <u>eefilters.o.info</u> ! (No such file or directory)					
	Test device: Asus Zenfone - ASUS_T00J - Android 4.4.2 - build ASUS_T00J_WW_user_2.20.40.13_20141105_1055 (latest) gradle: compile SDK 21, target SDK 21, minSDK 15, renderscriptTargetApi 18, renderscriptSupport true					
	CreateFxThread is the thread we're using to instantiate all the RS related stuff.					
	using buildTools 20 with original binaries:					
	01-08 09:02:56.265 15934-16042/com.baseapp.eyeem.p0 E/RenderScript : Skipping override driver 'libPVRRS.so' and loading default CPU driver 'libRSDriver.so'. 01-08 09:02:56.285 15934-16042/com.baseapp.eyeem.p0 D/RenderScript : Load RS driver 'libRSDriver.so' successfully.					
	01-08 10:24:28.905 23716-23822/com.baseapp.eyeem.p0 A/libc : Fatal signal 11 (SIGSEGV) at 0x00000010 (code=1), thread 23822 (CreateFxThread)					
	01-08 10:24:28.955					
	01-08 10:24:28.955 179-179/: I/DEBUG : Revision: '0'					
	01-08 10:24:28.955 179-179/? I/DEBUG: pid: 23716, tid: 23822, name: CreateFxThread >>> com.baseapp.eyeem.p0 <<<					
	01-08 10:24:28.955 179-179/? I/DEBUG : signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 00000010					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995 179-179/? E/Corkscrew : unrecognized dwarf lower part encoding: 0x54					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995 179-179/? I/DEBUG: 65873254 67867eb4 [anon:libc_malloc]					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995					
	01-08 10:24:28.995 179-179/? I/DEBUG: 65873274 42468b0e /system/lib/libLLVM.so					
	01-08 10:24:28.995 179-179/? I/DEBUG: #00 65873278 419658e0 /system/lib/libbcc.so					
	01-08 10:24:28.995					
	01-08 10:24:28.995					

01-08 10:24:28.995 179-179/? I/DEBUG : 65873284 00000000 01-08 10:24:28.995 179-179/? I/DEBUG : 65873288 00000013 01-08 10:24:28.995 179-179/? I/DEBUG : 6587328c 00000000 01-08 10:24:28.995 179-179/? I/DEBUG : 65873290 0000000e

```
01-08 10:24:28.995 179-179/? I/DEBUG: 658732a4 65175e5b [anon:libc_malloc]
01-08 10:24:28.995 179-179/? I/DEBUG: 658732a8 6799d890 [anon:libc_malloc]
01-08 10:24:28.995
             179-179/? I/DEBUG: 658732ac 6799d8a4 [anon:libc_malloc]
01-08 10:24:28.995
              179-179/? I/DEBUG: 658732b0 0088dd3c
01-08 10:24:28.995 179-179/? I/DEBUG: 658732b4 419282b8 /system/lib/libbcc.so
using buildTools 20 with modified binaries supplied on this thread:
01-08 10:33:48.405 24216-24378/com.baseapp.eyeem.p0 E/RenderScript: Skipping override driver 'libPVRRS.so' and loading default CPU driver 'libRSDriver.so'.
01-08 10:33:48.405 24216-24378/com.baseapp.eyeem.p0 D/RenderScript: Load RS driver 'libRSDriver.so' successfully.
01-08 10:33:49.015 24216-24378/com.baseapp.eyeem.p0 A/libc : Fatal signal 11 (SIGSEGV) at 0x00000010 (code=1), thread 24378 (CreateFxThread)
01-08 10:33:49.075 179-179/? I/DEBUG: Build fingerprint: 'asus/WW_a501cg/ASUS_T00J:4.4.2/KVT49L/WW_user_2.20.40.13_20141105_1055:user/release-keys'
01-08 10:33:49.075 179-179/? I/DEBUG: Revision: '0'
01-08 10:33:49.075
             179-179/? I/DEBUG: pid: 24216, tid: 24378, name: CreateFxThread >>> com.baseapp.eyeem.p0 <<<
01-08 10:33:49.075 179-179/? I/DEBUG: signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 00000010
01-08\ 10:33:49.115 \qquad 179-179/?\ I/DEBUG:\ xcs\ 00000073\ \ xds\ 0000007b\ \ xes\ 0000007b\ \ xfs\ 00000000\ \ xss\ 0000007b
01-08 10:33:49.115 179-179/? E/Corkscrew : unrecognized dwarf lower part encoding: 0x54
01-08 10:33:49.115 179-179/? I/DEBUG: backtrace:
01-08 10:33:49.115 179-179/? I/DEBUG: stack:
01-08 10:33:49.115 179-179/? I/DEBUG: 665b1240 665b153c [stack:24378]
01-08 10:33:49.115 179-179/? I/DEBUG : 665b1244 665b1234 [stack:24378]
01-08 10:33:49.115 179-179/? I/DEBUG: 665b1254 678629a4 [anon:libc_malloc]
01-08 10:33:49.115 179-179/? I/DEBUG : 665b1258 665b12c4 [stack:24378]
01-08 10:33:49.115 179-179/? I/DEBUG: 665b1260 66fad234 [anon:libc_malloc]
01-08 10:33:49.115 179-179/? I/DEBUG: 665b1264 665b12c4 [stack:24378]
01-08 10:33:49.115 179-179/? I/DEBUG: 665b1270 419658e0 /system/lib/libbcc.so
01\text{-}08\ 10\text{:}33\text{:}49\text{.}115 \qquad 179\text{-}179\text{/}?\ I/DEBUG}:\ 665b1274\ 42468b0e\ /system/lib/libLLVM.so
01-08 10:33:49.115 179-179/? I/DEBUG: 665b127c 418f717f /system/lib/libbcc.so
01-08 10:33:49.115 179-179/? I/DEBUG : 665b1288 00000013
01-08 10:33:49.125 179-179/? I/DEBUG : 665b129c 66ff2068 [anon:libc_malloc]
01-08 10:33:49.125 179-179/? I/DEBUG: 665b12a0 68a18720 [anon:libc_malloc]
01-08 10:33:49.125 179-179/? I/DEBUG : 665b12a4 66ff207b [anon:libc_malloc]
01-08 10:33:49.125 179-179/? I/DEBUG: 665b12a8 669e1d90 [anon:libc_malloc]
01-08 10:33:49.125 179-179/? I/DEBUG: 665b12b4 419282b8 /system/lib/libbcc.so
using buildTools 21.1.2:
01-08 10:46:04.255 25189-25396/com.baseapp.eyeem.p0 E/RenderScript : Skipping override driver 'libPVRRS.so' and loading default CPU driver 'libRSDriver.so'.
01-08 10:46:04.275 25189-25396/com.baseapp.eyeem.p0 D/RenderScript: Load RS driver 'libRSDriver.so' successfully.
and on this point nothing happens (no crash), but it also doesn't process any script, I open on AndroidDeviceMonitor and found our `CreateFxThread` stuck in a native method inside the cons
the stack:
at android.support.v8.renderscript.ScriptC.<init>(ScriptC.java:62)
at android.support.v8.renderscript.ScriptCThunker.<init>(ScriptCThunker.java:39)
at android.renderscript.ScriptC.<init>(ScriptC.java:59)
```

cs...@gmail.com <cs...@gmail.com>#23

Still not working. Any update on this please?

in...@gmail.com <in...@gmail.com> #22

at android.renderscript.ScriptC.internalCreate(ScriptC.java:111)

at android.renderscript.RenderScript.nScriptCCreate(RenderScript.java:702) at android.renderscript.RenderScript.rsnScriptCCreate(Native Method)

01-08 10:24:28.995

01-08 10:24:28.995 179-179/? I/DEBUG: 6587329c 65175e48 [anon:libc_malloc]

179-179/? I/DEBUG: 658732a0 66739e40 [anon:libc_malloc]

Still not working. Any update on this please?
ul@gmail.com <ul@gmail.com> <u>#24</u></ul@gmail.com>
I had a similar problem with the Asus Fonepad 7 K00E tablet.
The problem: The tablet is able to run both x86 and ARM code. For ARM it uses the houdini library to do the magic. They try to be smart and count the native dynamic libraries for each architecture. If the n
for armeabi so it goes boom.
The workaround: Add some dummy empty libraries in the jniLibs/armeabi folder. In this way the device will start using the x86 libraries. I attached the make file to create those empty libs and also the libs con
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© deleted 0 B ③
(b) deleted
0 B ②
ag@google.com <ag@google.com>_#25</ag@google.com>
Please complain to Intel.
bo@gmail.com <bo@gmail.com><u>#26</u></bo@gmail.com>
#25 Is that a joke?
sr@google.com <sr@google.com>#27</sr@google.com>
re: #24 above. If the issue with Houdini is that it sees more libraries for arm, the real issue is that you aren't shipping the appropriate full set of compatibility libraries for your app (i.e. arm,x86 the raw number of libraries, any NEON optimized code or specialized library you add for ARM will potentially trip this. That is a bug for Intel, as #25 mentions, since we have no visibility/access.
ag@google.com <ag@google.com><u>#28</u></ag@google.com>
Re #26:
I wish I was. This is an Intel modification to Android - not from Google. Try your app on a Nexus Player, and you will *not* find this behavior.
sa@gmail.com <sa@gmail.com>_#29</sa@gmail.com>
Getting the same issue with the 23.0.0 buildtools:
Caused by: android.support.v8.renderscript.RSRuntimeException: Error loading RS jni library: java.lang.UnsatisfiedLinkError: JNI_ERR returned from JNI_OnLoad in "/data/app/com.mbfg.pop android.support.v8.renderscript.RenderScript.internalCreate(RenderScript.java:1347) android.support.v8.renderscript.RenderScript.create(RenderScript.java:1504) android.support.v8.renderscript.RenderScript.create(RenderScript.java:1454) android.support.v8.renderscript.RenderScript.create(RenderScript.java:1430) android.support.v8.renderscript.RenderScript.create(RenderScript.java:1417)
ka@gmail.com <ka@gmail.com> #30</ka@gmail.com>
This hack works for me (Asus Zenfone 5 T00J, android 4.3 build-tools 22.0.1):
add one fake so file (just make and rename txt file) to build-tools/22.0.1/renderscript/lib/packaged/x86 rebuild project crashes gone
Unfortunately this doesn't work for 23.0.1 (so I can't use for example 23 support libraries)
[Deleted User] <[Deleted User]> <u>#31</u>
x86 + Renderscript Compat, few remarks:
Most of the time the simple "hello world" for RS compat code will compile and run. If it doesn't then that RS + buildTools version combination is wrong.
With that in mind, the methods and the way you add them is the thing that might break the code on x86. We managed to get our code running after hours of commenting out lines of code and
For us it turned out to be an array of method pointers in our RS code - that didn't work well with x86. Circumventing that with a silly switch fixed it and allowed rest of the code to execute properties.

Unfortunately with latest build tools (23.0.1) our code is broken again. There is now the classic $^{\text{\tiny{M}}}$ x86 error appearing:

```
We had to revert back to 22.0.1 - I dare say there is some x86 regression in 23.0.1 as we haven't changed our rs code
sr...@google.com <sr...@google.com> #32
The missing "dot" function for x86 should be fixed with https://android-review.googlesource.com/#/c/179305/1 (which I just merged into AOSP). Unfortunately, I think that the only way to wc
le...@gmail.com <le...@gmail.com>#33
The combination of:
compileSdkVersion 23
buildToolsVersion "23.0.2"
renderscriptTargetApi 19
renderscriptSupportModeEnabled true
com.android.support:appcompat-v7:23.1.1
works not too!
android.support.v8.renderscript.RSRuntimeException: Error loading libRSSupport library
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.support.v8.renderscript.RenderScript.internalCreate(RenderScript.java:1379)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at\ and roid. support. v8. renders cript. Render Script. create (Render Script. java: 1504)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at\ and roid. support. v8. renders cript. Render Script. create (Render Script. java: 1454)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.support.v8.renderscript.RenderScript.create(RenderScript.java:1430)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.support.v8.renderscript.RenderScript.create(RenderScript.java:1417)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at de.ndr.sfdl.helper.BitmapHelper.blurRenderScript(BitmapHelper.java:21)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at\ de.ndr.sfdl.activities. Main Activity. show Loading (Main Activity. java: 486)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at de.ndr.sfdl.fragments.RegUserFragment.regUserOnBackEnd(RegUserFragment.java:98)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at de.ndr.sfdl.fragments.RegUserFragment.onClick(RegUserFragment.java:74)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.view.View.performClick(View.java:4232)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.view.View$PerformClick.run(View.java:17298)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.os.Handler.handleCallback(Handler.java:615)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.os.Handler.dispatchMessage(Handler.java:92)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at android.os.Looper.loop(Looper.java:137)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at\ and roid. app. Activity Thread. main (Activity Thread. java: 4921)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at java.lang.reflect.Method.invokeNative(Native Method)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at java.lang.reflect.Method.invoke(Method.java:511)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at com.android.internal.os.Zygotelnit$MethodAndArgsCaller.run(Zygotelnit.java:1027)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at com.android.internal.os.Zygotelnit.main(Zygotelnit.java:794)
11-13 08:15:26.130 5948-5948/de.ndr.sfdl E/AndroidRuntime:
                                                               at dalvik.system.NativeStart.main(Native Method)
is there any workaround, so i can use appcompat-v7:23.+?
lk...@gmail.com <lk...@gmail.com>#34
[Comment deleted]
Ik...@gmail.com <lk...@gmail.com> #35
How to write dot function?
sr...@google.com <sr...@google.com>#36
Here are the functions from the runtime library itself. Just create your own dot function with this:
extern float __attribute__((overloadable)) dot(float lhs, float rhs) {
  return lhs * rhs;
extern float __attribute__((overloadable)) dot(float2 lhs, float2 rhs) {
  return lhs.x*rhs.x + lhs.y*rhs.y;
extern float __attribute__((overloadable)) dot(float3 lhs, float3 rhs) {
  return lhs.x*rhs.x + lhs.y*rhs.y + lhs.z*rhs.z;
extern float __attribute__((overloadable)) dot(float4 lhs, float4 rhs) {
  return lhs.x*rhs.x + lhs.y*rhs.y + lhs.z*rhs.z + lhs.w*rhs.w;
[Deleted User] <[Deleted User]>#37
[Comment deleted]
ai...@gmail.com <ai...@gmail.com> #38
build tools 23.0.2 fixed that crash for me
```

-- dlopen failed: cannot locate symbol "_Z3dotDv3_fS_"