

Android Public Tracker > App Development > Android Studio > Emulator

37088847


Android emulator v.22 with Google APIs: Freeze & reboot


+1

2

Hotlists (7)

Mark as Duplicate





Comments (27)

Dependencies

Duplicates (0)


Blocking (0)

Resources (4)

Infeasible

Bug


P2



Migrated-Tools-emulator


[AOSP] NotEnoughInformation

NeedsInfo

 STATUS UPDATE


No update yet.

Edit

 DESCRIPTION

to...@googlemail.com created issue [#1](#)

Mar 18, 2016 06:51AM



The current version of the emulator is not usable. It freezes after a few minutes and reboots. This can be reproduced - I used Maps as an example.

Emulator Version: 25.0.10, Android 5.1.1, Google APIs Intel x86 Atom System Image (revision 4)
Android SDK Tools: 25.0.10
Host Operating System: Ubuntu 15.10

Host CPU Model: Intel(R) Core(TM)2 Duo CPU P8600 @ 2.40GHz
Device name: Nexus 5
java version "1.7.0_95"
OpenJDK Runtime Environment (IcedTea 2.6.4) (7u95-2.6.4-0ubuntu0.15.10.1)
OpenJDK 64-Bit Server VM (build 24.95-b01, mixed mode)

Command to start emulator:
emulator -no-boot-anim -netdelay none -netspeed full -avd Nexus_5_API_22_Google -qemu -m 2047

Steps to Reproduce Bug:
1. Open an app, e.g. Maps
2. Send it background
3. Repeat steps 1 and 2 for a while

Expected Behavior:
The emulator responds to the user actions.

Observed Behavior:
The emulator freezes after a few minutes and reboots.
<https://youtu.be/jpmY-1qhtd0>

Reporter

to...@googlemail.com

Type

Bug

Priority

P2

Severity

S0

Status

Won't fix (Infeasible)

Access

Default access

View


Assignee

bo...@google.com


Verifier

--

Collaborators



CC

 bo...@google.com
ji...@google.com
to...@googlemail.com

AOSP ID

204310

Blocking Release

--

Release Status

--

Found In

--


Targeted To

--

Verified In

--

In Prod



Show 1 additional field

✓ Links (3)

Hide all

"<https://youtu.be/jpmY-1qhtd0>"

to...@ #1

"http://rel-1.7.5.1-0-g8936dbb-20141113_115728-nilsson.h..."

bo...@ #9


" combined this with another bug about the rendering problem, <https://code.google.com/p/android/issues/detail?id=204304>"

bo...@ #13, to...@ #22

COMMENTS


All comments

↓ Oldest first


 ch...@google.com

<ch...@google.com> [#2](#)

Mar 18, 2016 04:00PM




Thank you for this feedback. The team may reach out for more information on triaging or reproducing this issue.

 to...@googlemail.com

<to...@googlemail.com> [#3](#)

Mar 19, 2016 12:43AM



Here is what I could catch from logcat:

AndroidRuntime E *** FATAL EXCEPTION IN SYSTEM PROCESS: FinalizerWatchdogDaemon
E java.util.concurrent.TimeoutException: android.graphics.Path.finalize() timed out after 10 seconds
E at android.graphics.Path.finalizer(Native Method)
E at android.graphics.Path.finalize(Path.java:748)
E at java.lang.Daemons\$FinalizerDaemon.doFinalize(Daemons.java:191)
E at java.lang.Daemons\$FinalizerDaemon.run(Daemons.java:174)
E at java.lang.Thread.run(Thread.java:818)
Process I Sending signal. PID: 4563 SIG: 3
art I Thread[3,tid=4570,WaitingInMainSignalCatcherLoop,Thread*=0xb4025c00,peer=0x12c020a0,"Signal Catcher"]: reacting to signal 3
I Wrote stack traces to '/data/anr/traces.txt'
Process I Sending signal. PID: 4563 SIG: 3
art I Thread[3,tid=4570,WaitingInMainSignalCatcherLoop,Thread*=0xb4025c00,peer=0x12c020a0,"Signal Catcher"]: reacting to signal 3
Process I Sending signal. PID: 4883 SIG: 3

```

art I Thread[3,tid=4897,WaitingInMainSignalCatcherLoop,Thread*=0xb4026000,peer=0x12c000a0,"Signal Catcher"]: reacting to
signal 3
    I Wrote stack traces to '/data/anr/traces.txt'
    I Wrote stack traces to '/data/anr/traces.txt'
Watchdog_N I dumpKernelStacks
Watchdog W *** WATCHDOG KILLING SYSTEM PROCESS: Blocked in monitor com.android.server.am.ActivityManagerService on
foreground thread (android
    .fg), Blocked in handler on ActivityManager (ActivityManager)
W foreground thread stack trace:
W at com.android.server.am.ActivityManagerService.monitor(ActivityManagerService.java:18780)
W at com.android.server.Watchdog$HandlerChecker.run(Watchdog.java:173)
W at android.os.Handler.handleCallback(Handler.java:739)
W at android.os.Handler.dispatchMessage(Handler.java:95)
W at android.os.Looper.loop(Looper.java:135)
W at android.os.HandlerThread.run(HandlerThread.java:61)
W at com.android.server.ServiceThread.run(ServiceThread.java:46)
W ActivityManager stack trace:
W at com.android.server.am.ActivityManagerService$MainHandler.handleMessage(ActivityManagerService.java:1545)
W at android.os.Handler.dispatchMessage(Handler.java:102)
W at android.os.Looper.loop(Looper.java:135)
W at android.os.HandlerThread.run(HandlerThread.java:61)
W at com.android.server.ServiceThread.run(ServiceThread.java:46)
W *** GOODBYE!
Process I Sending signal. PID: 4563 SIG: 9
Sensors W sensorservice died [0xb42e8180]
AudioFlinger W power manager service died !!!
AudioManager E Dead object in playSoundEffect android.os.DeathObjectException
Choreographer I Skipped 5539 frames! The application may be doing too much work on its main thread.
WifiManager E Channel connection lost
    E Channel connection lost
    E Channel connection lost
    E Channel connection lost
SurfaceFlinger D Set power mode=2, type=0 flinger=0xb685c000
    D Screen type=0 is already mode=2
ServiceManager I service 'telecom' died
    I service 'mount' died
    I service 'lock_settings' died
    I service 'device_policy' died
    I service 'statusbar' died
    I service 'clipboard' died
    I service 'network_management' died
    I service 'textservices' died
    I service 'network_score' died
    I service 'netstats' died
    I service 'netpolicy' died
    I service 'wifip2p' died
    I service 'servicediscovery' died
    I service 'updatelock' died
    I service 'notification' died
    I service 'devicestoragemonitor' died
    I service 'location' died
    I service 'country_detector' died
    I service 'search' died
    I service 'dropbox' died
    I service 'wallpaper' died
    I service 'audio' died
    I service 'DockObserver' died
    I service 'usb' died
    I service 'serial' died
    I service 'uimode' died
    I service 'jobscheduler' died
    I service 'backup' died
    I service 'appwidget' died
    I service 'voiceinteraction' died
    I service 'diskstats' died
    I service 'samplingprofiler' died
    I service 'common_time_management' died
    I service 'dreams' died
    I service 'assetatlas' died
    I service 'print' died
    I service 'restrictions' died
    I service 'media_session' died
    I service 'media_router' died
    I service 'trust' died
    I service 'fingerprint' died
    I service 'launcherapps' died
    I service 'media_projection' died
    I service 'imms' died
    I service 'dbinfo' died
    I service 'sensorservice' died
    I service 'batterystats' died
    I service 'appops' died
    I service 'power' died
    I service 'display' died
    I service 'procstats' died
    I service 'wifi' died

```

```

I service 'wificanner' died
I service 'rttmanager' died
I service 'cpuinfo' died
I service 'permission' died
I service 'hardware' died
I service 'battery' died
I service 'usagestats' died
I service 'webviewupdate' died
I service 'scheduling_policy' died
I service 'telephony.registry' died
I service 'entropy' died
I service 'account' died
I service 'content' died
I service 'vibrator' died
I service 'consumer_ir' died
I service 'package' died
I service 'activity' died
I service 'user' died
I service 'alarm' died
I service 'window' died
I service 'input' died
I service 'connectivity' died
I service 'meminfo' died
I service 'gfxinfo' died
I service 'input_method' died
I service 'accessibility' died
SurfaceFlinger W couldn't log to binary event log: overflow.
install E eof
      E failed to read size
      I closing connection
lowmemorykiller I ActivityManager disconnected
      I Closing Activity Manager data connection
AndroidRuntime D Shutting down VM
      E FATAL EXCEPTION: main
      E Process: com.android.phone, PID: 4883
      E java.lang.RuntimeException: android.os.DeathObjectException
      E   at android.net.TrafficStats.getMobileInterfaces(TrafficStats.java:624)
      E   at android.net.TrafficStats.getMobileTcpTxPackets(TrafficStats.java:368)
      E   at com.android.internal.telephony.dataconnection.DcTrackerBase$TxRxSum.updateTxRxSum(DcTrackerBase.java:499)
      E   at com.android.internal.telephony.dataconnection.DcTrackerBase.updateDataActivity(DcTrackerBase.java:1571)
      E   at com.android.internal.telephony.dataconnection.DcTrackerBase$3.run(DcTrackerBase.java:371)
      E   at android.os.Handler.handleCallback(Handler.java:739)
      E   at android.os.Handler.dispatchMessage(Handler.java:95)
      E   at android.os.Looper.loop(Looper.java:135)
      E   at android.app.ActivityThread.main(ActivityThread.java:5254)
      E   at java.lang.reflect.Method.invoke(Native Method)
      E   at java.lang.reflect.Method.invoke(Method.java:372)
      E   at com.android.internal.os.ZygoteInit$MethodAndArgsCaller.run(ZygoteInit.java:903)
      E   at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:698)
      E Caused by: android.os.DeathObjectException
      E   at android.os.BinderProxy.transactNative(Native Method)
      E   at android.os.BinderProxy.transact(Binder.java:496)
      E   at android.net.INetworkStatsService$Stub$Proxy.getMobileInterfaces(INetworkStatsService.java:239)
      E   at android.net.TrafficStats.getMobileInterfaces(TrafficStats.java:622)
      E   ... 12 more
      E Error reporting crash
      E android.os.DeathObjectException
      E   at android.os.BinderProxy.transactNative(Native Method)
      E   at android.os.BinderProxy.transact(Binder.java:496)
      E   at android.app.ActivityManagerProxy.handleApplicationCrash(ActivityManagerNative.java:4164)
      E   at com.android.internal.os.RuntimeInit$UncaughtHandler.uncaughtException(RuntimeInit.java:89)
      E   at java.lang.ThreadGroup.uncaughtException(ThreadGroup.java:693)
      E   at java.lang.ThreadGroup.uncaughtException(ThreadGroup.java:690)
Process I Sending signal. PID: 4883 SIG: 9

```



vh...@google.com <vh...@google.com> [#4](#)

Mar 19, 2016 03:57AM ⋮

Assigned to pr...@google.com.

Hi Tobias,

Thanks again for the video!

Since we haven't seen this here, my first guess is that it's GPU related. Can you edit your AVD to use software OpenGL instead of host GPU? (Also, I recommend dropping the resolution of your AVD and increasing the number of cores to make software rendering faster). It will be slower but does the bug persist?

If the bug goes away, can you try updating your GPU drivers?

Hi Vipin,

Can someone on the test team try to reproduce this locally?



vh...@google.com <vh...@google.com> [#5](#)

Mar 19, 2016 04:00AM ⋮

Hi Tobias, the next time it crashes, please upload a crash report and append the report number(s) to this issue. That will help us root cause the issue.

to...@googlemail.com <to...@googlemail.com> [#6](#)

Mar 19, 2016 04:03AM ⋮

The emulator is not actually crashing but freezing and rebooting Android.

pr...@google.com <pr...@google.com> [#7](#)

Mar 19, 2016 05:01AM ⋮

Hello, I could not repro it with my setup.

Studio IDE: latest Studio canary
SDK Tools: 25.0.10
openjdk version "1.8.0-google-v7"
OpenJDK Runtime Environment (build 1.8.0-google-v7-114555630-114530017)
OpenJDK 64-Bit Server VM (build 25.51-b03, mixed mode)

AVD Config:
Device:Nexus 5
Build fingerprint: 'Android/sdk_google_phone_x86/generic_x86:5.1.1/LMY48X/2524186:userdebug/test-keys'
RAM: 1536MB
VM Heap: 64MB
Emulated performance Graphics : Auto

Steps:

1. Create an L MR1 (API 22) x86 Google API emulator AVD using Android Studio AVD Manager with default settings
2. Start the emulator avd from the command line: emulator -no-boot-anim -netdelay none -netspeed full -avd <avd name> -qemu -m 2047
3. Perform repeated actions on Maps (Also tried opening multiple apps simultaneously)

No runtime restarts as described above.

Note:

1. I did run into an Out Of Memory exception on Google Maps app during this
2. I also repeated the tests with Emulated performance Graphics set to Hardware GLES 2.0

bo...@google.com <bo...@google.com> [#8](#)

Mar 19, 2016 05:11AM ⋮

the the published api22's kernel has a memory bug; we need to publish a newer system image for api22 that has the bug fix in the kernel.

bo...@google.com <bo...@google.com> [#9](#)

Mar 19, 2016 05:12AM ⋮

```
[ 0.562946] -----[ cut here ]-----
[ 0.563368] WARNING: at mm/page_alloc.c:2425 __alloc_pages_nodemask+0x123/0x608()
[ 0.564029] Modules linked in:
[ 0.564327] CPU: 1 PID: 1 Comm: swapper/0 Not tainted 3.10.0+ #327
[ 0.564878] Hardware name: QEMU Standard PC (i440FX + PIIX, 1996), BIOS rel-1.7.5.1-0-g8936dbb-20141113.115728-nilsson.home.kraxel.org 04/01/2014
[ 0.566107] 00000000 00000000 f7037ddc c0670313 f7037df4 c0225376 c02936ec 000080d0
[ 0.566874] 000080d0 00000000 f7037e04 c02253f1 00000009 00000000 f7037e74 c02936ec
[ 0.567640] f6964d00 c02af172 00005e19 f72f0a20 00000001 f7037e2c f7037e2c c0675512
[ 0.568415] Call Trace:
[ 0.568644] [<c0670313>] dump_stack+0x16/0x18
[ 0.569045] [<c0225376>] warn_slowpath_common+0x48/0x5f
[ 0.569522] [<c02936ec>] ? __alloc_pages_nodemask+0x123/0x608
[ 0.570108] [<c02253f1>] warn_slowpath_null+0xf/0x13
[ 0.570566] [<c02936ec>] __alloc_pages_nodemask+0x123/0x608
[ 0.571074] [<c02af172>] ? __get_vm_area_node.isra.33+0x75/0x11f
[ 0.571621] [<c0675512>] ? _raw_spin_unlock+0x10/0x25
[ 0.572088] [<c0675584>] ? _raw_read_unlock+0x10/0x25
[ 0.572551] [<c022c664>] ? iomem_map_sanity_check+0xa2/0xac
[ 0.573063] [<c021da85>] ? __ioremap_caller+0x1e6/0x23b
[ 0.573541] [<c02048bb>] dma_generic_alloc_coherent+0x58/0xb4
[ 0.574063] [<c0204863>] ? via_no_dac+0x28/0x28
[ 0.574480] [<c03bcee2>] goldfish_fb_probe+0x1e1/0x30a
[ 0.574961] [<c03bf626>] ? acpi_dev_pm_attach+0x38/0x5f
[ 0.575439] [<c042b381>] platform_drv_probe+0x26/0x48
[ 0.575905] [<c042a0d3>] driver_probe_device+0x75/0x173
[ 0.576388] [<c042a244>] __driver_attach+0x47/0x63
[ 0.576828] [<c04295ab>] bus_for_each_dev+0x5e/0x6f
[ 0.577276] [<c0429d6c>] driver_attach+0x14/0x16
[ 0.577695] [<c042a1fd>] ? __device_attach+0x2c/0x2c
[ 0.578141] [<c0429a77>] bus_add_driver+0xce/0x1bc
[ 0.578655] [<c042a63b>] driver_register+0x70/0xc9
[ 0.579275] [<c08cf3db>] ? genericbl_driver_init+0xf/0xf
[ 0.579753] [<c042b1e8>] platform_driver_register+0x38/0x3a
[ 0.580329] [<c08cf3e8>] goldfish_fb_driver_init+0xd/0xf
[ 0.580813] [<c020014c>] do_one_initcall+0x6b/0xea
[ 0.581247] [<c08ac9dd>] kernel_init_freeable+0xe8/0x160
[ 0.581733] [<c0664bb3>] kernel_init+0x8/0xb4
[ 0.582136] [<c0676077>] ret_from_kernel_thread+0x1b/0x28
```

```
[ 0.582627] [<c0664bab>] ? rest_init+0x70/0x70
[ 0.583039] ---[ end trace 0bf56e02d75805ca ]---
```

bo...@google.com <bo...@google.com> [#10](#)

Mar 19, 2016 05:19AM

Reassigned to bo...@google.com.

hello Tobias,
since you can reproduce it reliably, would you try this new kernel ?
just download it into the system-images/android-22/googleApis/x86
and restart AVD

 **kernel-ranchu**
3.9 MB [View](#) [Download](#)

to...@googlemail.com <to...@googlemail.com> [#11](#)

Mar 19, 2016 05:30AM

Will do. Stay tuned.

to...@googlemail.com <to...@googlemail.com> [#12](#)

Mar 19, 2016 05:46AM


Here is what I did - just in case..
I renamed the existing kernel-ranchu and moved your patched version into the folder. Then I created a new emulator using the wizard from Android Studio.

I managed to freeze and reboot Android again using Maps. The stacktrace:

```
Process I Sending signal. PID: 1490 SIG: 3
art I Thread[3,tid=1497,WaitingInMainSignalCatcherLoop,Thread*=0xb4025c00,peer=0x12c020a0,"Signal Catcher"]: reacting to
signal 3
    I Wrote stack traces to '/data/anr/traces.txt'
Process I Sending signal. PID: 1490 SIG: 3
art I Thread[3,tid=1497,WaitingInMainSignalCatcherLoop,Thread*=0xb4025c00,peer=0x12c020a0,"Signal Catcher"]: reacting to
signal 3
Process I Sending signal. PID: 1990 SIG: 3
art I Thread[3,tid=2001,WaitingInMainSignalCatcherLoop,Thread*=0xb4026400,peer=0x12c000a0,"Signal Catcher"]: reacting to
signal 3
    I Wrote stack traces to '/data/anr/traces.txt'
    I Wrote stack traces to '/data/anr/traces.txt'
Watchdog_N I dumpKernelStacks
art I Background sticky concurrent mark sweep GC freed 10011(646KB) AllocSpace objects, 9(419KB) LOS objects, 0% free,
17MB/17MB, paused
    5.107ms total 31.837ms
Watchdog W *** WATCHDOG KILLING SYSTEM PROCESS: Blocked in monitor com.android.server.am.ActivityManagerService on
foreground thread (android
    .fg), Blocked in handler on ActivityManager (ActivityManager)
W foreground thread stack trace:
W at com.android.server.am.ActivityManagerService.monitor(ActivityManagerService.java:18780)
W at com.android.server.Watchdog$HandlerChecker.run(Watchdog.java:173)
W at android.os.Handler.handleCallback(Handler.java:739)
W at android.os.Handler.dispatchMessage(Handler.java:95)
W at android.os.Looper.loop(Looper.java:135)
W at android.os.HandlerThread.run(HandlerThread.java:61)
W at com.android.server.ServiceThread.run(ServiceThread.java:46)
W ActivityManager stack trace:
W at com.android.server.am.ActivityManagerService$MainHandler.handleMessage(ActivityManagerService.java:1545)
W at android.os.Handler.dispatchMessage(Handler.java:102)
W at android.os.Looper.loop(Looper.java:135)
W at android.os.HandlerThread.run(HandlerThread.java:61)
W at com.android.server.ServiceThread.run(ServiceThread.java:46)
W *** GOODBYE!
Process I Sending signal. PID: 1490 SIG: 9
Zygote E Exit zygote because system server (-1275082076) has terminated
ServiceManager I service 'media.audio_flinger' died
    I service 'media.player' died
    I service 'media.camera' died
    I service 'media.audio_policy' died
    I service 'media.sound_trigger_hw' died
    I service 'isub' died
    I service 'iphonesubinfo' died
    I service 'simphonebook' died
    I service 'isms' died
    I service 'phone' died
installD E eof
    E failed to read size
    I closing connection
lowmemorykiller I ActivityManager disconnected
    I Closing Activity Manager data connection
ServiceManager I service 'gfxinfo' died
    I service 'activity' died
    I service 'wifip2p' died
    I service 'wifi' died
```

```
I service 'wificanner' died
I service 'rttmanager' died
I service 'connectivity' died
I service 'servicediscovery' died
I service 'updatelock' died
I service 'notification' died
I service 'devicestoragemonitor' died
I service 'location' died
I service 'country_detector' died
I service 'search' died
I service 'dropbox' died
I service 'wallpaper' died
I service 'audio' died
I service 'DockObserver' died
I service 'usb' died
I service 'serial' died
I service 'uimode' died
I service 'jobscheduler' died
I service 'backup' died
I service 'appwidget' died
I service 'voiceinteraction' died
I service 'diskstats' died
I service 'samplingprofiler' died
I service 'commontime_management' died
I service 'dreams' died
I service 'assetatlas' died
I service 'print' died
I service 'restrictions' died
I service 'media_session' died
I service 'media_router' died
I service 'trust' died
I service 'fingerprint' died
I service 'launcherapps' died
I service 'media_projection' died
I service 'imms' died
I service 'dbinfo' died
I service 'cpuinfo' died
I service 'permission' died
I service 'hardware' died
I service 'battery' died
I service 'usagestats' died
I service 'webviewupdate' died
I service 'scheduling_policy' died
I service 'telephony.registry' died
I service 'entropy' died
I service 'account' died
I service 'content' died
I service 'vibrator' died
I service 'consumer_ir' died
I service 'alarm' died
I service 'window' died
I service 'input' died
I service 'meminfo' died
I service 'user' died
I service 'procstats' died
I service 'package' died
I service 'input_method' died
I service 'accessibility' died
I service 'mount' died
I service 'device_policy' died
I service 'lock_settings' died
I service 'statusbar' died
I service 'clipboard' died
I service 'network_management' died
I service 'textservices' died
I service 'network_score' died
I service 'netstats' died
I service 'netpolicy' died
I service 'telecom' died
I service 'sensor service' died
I service 'battery stats' died
I service 'appops' died
I service 'power' died
I service 'display' died
SurfaceFlinger D Set power mode=2, type=0 flinger=0xb685c000
D Screen type=0 is already mode=2
Netd I Netd 1.0 starting
E Failed to open /proc/sys/net/ipv6/conf/default/optimistic_dad: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/eth0/optimistic_dad: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/lo/optimistic_dad: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/sit0/optimistic_dad: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/default/use_optimistic: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/eth0/use_optimistic: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/lo/use_optimistic: No such file or directory
E Failed to open /proc/sys/net/ipv6/conf/sit0/use_optimistic: No such file or directory
BootAnimation I boot animation disabled
```

```
mediaserver I ServiceManager: 0xb5c35620
AudioFlinger I Using default 3000 mSec as standby time.
ServiceManager I Waiting for service batterystats...
AndroidRuntime D >>>>> START com.android.internal.os.ZygoteInit uid 0 <<<<<
    D CheckJNI is ON
    art I option[0]=-Xzygote
        I option[1]=-Xcheckjni
        I option[2]=-Xjnigreflimit:2000
        I option[3]=-Xstacktracefile:/data/anr/traces.txt
        I option[4]=exit
        I option[5]=vfprintf
        I option[6]=sensitiveThread
        I option[7]=-verbose:gc
        I option[8]=-Xms4m
        I option[9]=-Xmx64m
        I option[10]=-XX:mainThreadStackSize=24K
        I option[11]=-agentlib:jdwp=transport=dt_android_adb,suspend=n,server=y
        I option[12]=-Xlockprofthreshold:500
        I option[13]=-Ximage-compiler-option
        I option[14]=--runtime-arg
        I option[15]=-Ximage-compiler-option
        I option[16]=-Xms64m
        I option[17]=-Ximage-compiler-option
        I option[18]=--runtime-arg
        I option[19]=-Ximage-compiler-option
        I option[20]=-Xmx64m
        I option[21]=-Ximage-compiler-option
        I option[22]=--image-classes=/system/etc/preloaded-classes
        I option[23]=-Xcompiler-option
        I option[24]=--runtime-arg
        I option[25]=-Xcompiler-option
        I option[26]=-Xms64m
        I option[27]=-Xcompiler-option
        I option[28]=--runtime-arg
        I option[29]=-Xcompiler-option
        I option[30]=-Xmx512m
        I option[31]=-Duser.language=en
        I option[32]=-Duser.region=US
    memtrack E Couldn't load memtrack module (No such file or directory)
    android.os.Debug E failed to load memtrack module: -2
```

 **bo...@google.com** <bo...@google.com> [#13](#) Mar 19, 2016 05:52AM ⋮


thanks Tobias,
combined this with another bug about the rendering problem, <https://code.google.com/p/android/issues/detail?id=204304>
it might be related to the GPU driver (just my guess), can you tell us
more about the GPU driver you are using ?
you can add "-verbose-show-kernel" to the emulator command line and copy
paste the output here.

thanks,

 **to...@googlemail.com** <to...@googlemail.com> [#14](#) Mar 19, 2016 06:58AM ⋮


Here you go.

 **emulator-output.txt**
27 KB [View](#) [Download](#)


 **bo...@google.com** <bo...@google.com> [#15](#) Mar 19, 2016 09:02AM ⋮


don't know what happened, but I cannot find the output

" Attachments:
emulator-output.txt 26.6 KB file"

 **to...@googlemail.com** <to...@googlemail.com> [#16](#) Mar 19, 2016 09:16AM ⋮

Somehow my comment has been removed. Second try.

 **emulator-output.txt**
27 KB [View](#) [Download](#)

 **bo...@google.com** <bo...@google.com> [#17](#) Mar 19, 2016 09:21AM ⋮

emulator: OpenGL Vendor=[Google (X.Org)]
emulator: OpenGL Renderer=[Android Emulator OpenGL ES Translator (Gallium 0.4 on AMD RV620 (DRM 2.43.0, LLVM 3.6.2))]
emulator: OpenGL Version=[OpenGL ES 2.0 (3.0 Mesa 11.0.2)]

bo...@google.com <bo...@google.com> [#18](#) Mar 19, 2016 09:21AM ⋮

looks like it is the Mesa software renderer on your host computer ?

bo...@google.com <bo...@google.com> [#19](#) Mar 19, 2016 09:22AM ⋮


can you try -gpu guest from the command line ?

i.e.,

```
/path/to/emulator -avd Nexus_5_API_22_Google_Patched -gpu guest -show-kernel -verbose -qemu -smp cores=4
```

to...@googlemail.com <to...@googlemail.com> [#20](#) Mar 19, 2016 09:37AM ⋮

I just started the emulator with the params until Android launched. If I understood you correct this is good enough. I did not try to freeze it this time. Please tell me if I should try.

 **emulator-output-2.txt**
28 KB [View](#) [Download](#)

bo...@google.com <bo...@google.com> [#21](#) Mar 19, 2016 09:40AM ⋮

try to freeze it :)

to...@googlemail.com <to...@googlemail.com> [#22](#) Mar 19, 2016 10:17AM ⋮

Looks much more stable. I could not freeze it although I tried longer than before.

Also the glitches reported in <https://code.google.com/p/android/issues/detail?id=204304> are gone. Can you please explain whenever we are finished with testing?

bo...@google.com <bo...@google.com> [#23](#) Mar 19, 2016 10:20AM ⋮

so most probably the GPU driver on your host machine is causing the auto-reboot and the bad rendering;

the -gpu guest is using a software renderer inside the system, not using the host's GPU;
it does require more cores (cores=4) to run reasonably well.

to...@googlemail.com <to...@googlemail.com> [#24](#) Mar 19, 2016 10:24AM ⋮


Can we investigate further on the GPU driver then? Mesa libraries are installed as I could see from Synaptic Package Manager.

bo...@google.com <bo...@google.com> [#25](#) Mar 19, 2016 11:23AM ⋮

you can try -gpu mesa to use the version that came with the emulator.

to...@googlemail.com <to...@googlemail.com> [#26](#) Mar 19, 2016 08:19PM ⋮

When I run the emulator with -gpu mesa it is really slow. I kept the cores at 4.
I managed to freeze it as before.

 **emulator-output-mesa.txt**
46 KB [View](#) [Download](#)

ch...@google.com <ch...@google.com> [#27](#) Oct 6, 2016 03:43AM ⋮

Status: Won't Fix (Infeasible)

First we want to thank you for filing this issue. We are performing a fall cleaning of our bug database to make sure it is relevant and actionable in Q4.

We were not able to fully diagnose or reproduce this issue. It appears we did not get an update on this within 30 days of our last request for updates. Given the lack of information to move forward, we are closing the bug.

If you experience this issue with the latest version or believe this issue was closed in mistake, please open a new bug.