Hotlists (11)





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Android Public Tracker 191903378 ▼

← C ☆ android.view.cts.ASurfaceControlTest#testSurfaceControl createFromWind

[CTS][Android-11] process crash in CtsViewTestCases +1 10 ow Comments (3) Blocking (0) Dependencies Duplicates (0) Resources (1) Assigned Bua [AOSP] assigned adexe s nau STATUS UPDATE No update yet. Edit $\begin{tabular}{ll} \blacksquare & \textbf{DESCRIPTION} & br...@imagination.corp-partner.google.com created issue $\frac{\#1}{2}$ \\ \hline \end{tabular}$ Jun 24, 2021 05:52PM [Branches] Android-10 / Android-11 [Test cases] - CtsViewTestCases $and roid. view. cts. A Surface Control Test \# test Surface Control_create From Window And Surface Control_create From Window Co$ android.view.cts.ASurfaceControlTest#testSurfaceTransaction_setColorAndBuffer_bufferAlpha_0_5 [Description] Issue was found in testing on slower devices. It is a synchronization problem and causes process crash. When the test is ending, mSurfacePixelValidator.finish(...) closes the buffer that PixelChecker#validatePlane(...) is still checking. The crash hides other checks to the test no matter it is pass or failed. As Android is going to support longer period of migrating versions, slower device may need to take into account more. [Debugging files] 1. Attached SurfacePixelValidator2.j.debug.java for android-11 cts branch can generate log below. 2. log.CtsViewTestCases.createFromWindow.txt [Replicate] It is testing on slower devices. In this case, devices are around 80~110 fps in ASurfaceControl relevant cases. I think it is easier to replicate when device is slower. [log] - Analyze the debugging log: After 'Stopping capture', there is 1000 ms delay before 'Ending test case'. There are around two frames to validate between 'Stopping capture' and 'Ending test case'. In slower device, the two PixelChecker.validatePlane() calls might exceed the 1000 ms delay. And mlmageReader.close() releases the buffer that it is currently checking. That caues crashed. \$ cat log.CtsViewTestCases.createFromWindow.txt | grep -e CTS-DEBUG -e "Stopping capture" -e "Ending test" -- device log --06-24 05:17:12.531 14348 14398 D SurfacePixelValidator: CTS-DEBUG enter onImageAvailable mResultLock 06-24 05:17:12.531 14348 14398 D SurfacePixelValidator: CTS-DEBUG exit onImageAvailable mResultLock 06-24 05:17:12.544 14348 14398 D SurfacePixelValidator: CTS-DEBUG before onImageAvailable validatePlane 06-24 05:17:12.700 14348 14348 D CapturedActivity: Stopping capture 06-24 05:17:12.700 14348 14348 D SurfacePixelValidator: CTS-DEBUG waitForFrame 06-24 05:17:12,700 14348 14348 D SurfacePixelValidator; CTS-DEBUG enter waitForFrame mResultLock 06-24 05:17:13.167 14348 14398 D SurfacePixelValidator: CTS-DEBUG after onImageAvailable validatePlane 06-24 05:17:13.167 14348 14398 D SurfacePixelValidator: CTS-DEBUG enter onImageAvailable mResultLock 06-24 05:17:13.167 14348 14398 D SurfacePixelValidator: CTS-DEBUG exit onImageAvailable mResultLock 06-24 05:17:13.180 14348 14398 D SurfacePixelValidator: CTS-DEBUG before onImageAvailable validatePlane 06-24 05:17:13.672 14348 14348 D CapturedActivity: Ending test case 06-24 05:17:13.672 14348 14348 D SurfacePixelValidator: CTS-DEBUG finish 06-24 05:17:13.672 14348 14348 D SurfacePixelValidator: CTS-DEBUG enter finish mResultLock 06-24 05:17:13.672 14348 14348 D SurfacePixelValidator: CTS-DEBUG before finish mlmageReader.close() -> The image reader closes while validatePlane() is still checking pixels 06-24 05:17:13.672 14348 14348 D SurfacePixelValidator: CTS-DEBUG after finish mlmageReader.close() ----- beginning of crash 06-24 05:17:13.672 14348 14398 F libc : Fatal signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 0x75bf35af215c in tid 14398 (SurfacePixelVal), pid 14348 (ndroid.view.cts) 06-24 05:17:13.672 14348 14394 D CapturedActivity: Test finished, passFrames 74, failFrames 0

06-24 05:17:13.690 14403 14403 I crash_dump64: obtaining output fd from tombstoned, type:

06-24 05:17:13.691 14403 14403 I crash_dump64: performing dump of process 14348 (target tid = 14398)

06-24 05:17:13.690 354 354 I tombstoned: received crash request for pid 14398

kDebuggerdTombstone

Reporter br...@imagination.corp-partn... Type Bua Priority Р3 Severity S3 Status Assigned Access Default access View Assignee vi...@google.com Verifier Collaborators : СС br...@imagination.corp-partner.god vi...@google.com AOSP ID ReportedBy Developer Found In Targeted To Verified In In Prod

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06-24 05:17:13.696 14403 14403 F DEBUG : Build fingerprint:
'Android/full_pc_x86_64/pc:11/RP1A.201005.004.A1/eng.buildb.20210618.193927:userdebug/test-keys'
06-24 05:17:13.696 14403 14403 F DEBUG : Revision: '0'
06-24 05:17:13.696 14403 14403 F DEBUG : ABI: 'x86_64'
06-24 05:17:13.697 14403 14403 F DEBUG : Timestamp: 2021-06-24 05:17:13+0000
06-24 05:17:13.697 14403 14403 F DEBUG : pid: 14348, tid: 14398, name: SurfacePixelVal >>>
android.view.cts <<<
06-24 05:17:13.697 14403 14403 F DEBUG : uid: 10134
06-24 05:17:13.697 14403 14403 F DEBUG : signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr
0x75bf35af215c
06-24 05:17:13.697 14403 14403 F DEBUG :
                                           rax 0000000012f22844 rbx 0000000012f23c40 rcx
000000000000000 rdx 000000000001400
06-24 05:17:13 697 14403 14403 F DEBUG
                                           r8 000000012f22d80 r9 000000000001400 r10
000075bf35af1c00 r11 000000000000024f
06-24 05:17:13.697 14403 14403 F DEBUG :
                                           r12 000000000001400 r13 000075bf35c985c8 r14
000075bf35af1c00 r15 00000000000000000
06-24 05:17:13.697 14403 14403 F DEBUG :
                                           rdi 0000000012f22844 rsi 000075bf22bcf3bc
06-24 05:17:13.697 14403 14403 F DEBUG :
                                           rbp 000075c04fb34a70 rsp 000075bf35c984f0 rip
000075c22011b1e6
06-24 05:17:13.706 384 483 E BufferQueueProducer: [SurfaceView -
android.view.cts/android.view.cts.surfacevalidator.CapturedActivity#0](id:1800000012f,api:0,p:-1,c:384)
disconnect: not connected (req=2)
06-24 05:17:13.737 14403 14403 F DEBUG : backtrace:
06-24 05:17:13.737 14403 14403 F DEBUG : #00 pc 0000000000511e6
/apex/com.android.runtime/lib64/bionic/libc.so (memmove+374) (BuildId:
dab539f0ab87cd72cb724aebfcabacf2)
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #01 pc 000000000322837 [anon:dalvik-main space (region
space)]
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #02 pc 0000000000491307
/apex/com.android.art/lib64/libart.so (art::JNI<false>::SetByteArrayRegion(_JNIEnv*, _jbyteArray*, int, int,
signed char const*)+855) (BuildId: 395b06492f5ec91bc8cf84734c9beb55)
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #03 pc 000000000322837 [anon:dalvik-main space (region
space)]
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #04 pc 000000000015af7
/apex/com.android.art/javalib/x86_64/boot-core-libart.oat (art_jni_trampoline+263) (BuildId:
06c723e2ff44ead3e0ba45af7efe3dfad2b4a85d)
                                            #05 pc 00000000002e2c00 <unknown>
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #06 pc 00000000002b8329
06-24 05:17:13.737 14403 14403 F DEBUG :
/apex/com.android.art/javalib/x86_64/boot.oat (java.nio.DirectByteBuffer.get+361) (BuildId:
063a75624879be7d4274ea340748b04abbd86b8d)
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #07 pc 000000000001400 <unknown>
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #08 pc 000000000200482e /memfd:jit-cache (deleted) (offset
0x2000000) (android.view.cts.surfacevalidator.PixelChecker.validatePlane+462)
06-24 05:17:13.737 14403 14403 F DEBUG :
                                            #09 pc 00000000010374b [anon:stack_and_tls:14398]
06-24 05:17:13.738 384 384 E Layer : [SurfaceView -
android.view.cts/android.view.cts.surfacevalidator.CapturedActivity#0] No local sync point found
-- host log --
Use "help" or "help all" to get more information on running commands.
Using commandline arguments as starting command: [run, cts-dev, -m, CtsViewTestCases, -t,
android.view.cts.ASurfaceControlTest#testSurfaceControl_createFromWindow, --abi=x86_64]
06-24 13:16:05 I/TestInvocation: Starting invocation for 'cts' with '[
DeviceBuildInfo{bid=eng.brando.20210622.122815, serial=emulator-5554} on device 'emulator-5554']
06-24 13:16:06 W/NativeDevice: Emulator output for emulator-5554 was not captured in background
06-24 13:16:09 D/ITestSuite: [Total Unique Modules = 1]
06-24 13:16:09 D/ModuleDefinition: Running module x86_64 CtsViewTestCases
06-24 13:17:12 I/ModuleListener: [1/1]
android.view.cts.ASurfaceControlTest#testSurfaceControl_createFromWindow FAILURE: Test failed to run to
completion. Reason: 'Instrumentation run failed due to 'Process crashed.". Check device logcat for details
06-24 13:18:14 E/JdwpProxyServer: Address already in use
java.net.BindException: Address already in use
  at java.base/sun.nio.ch.Net.bind0(Native Method)
  at java.base/sun.nio.ch.Net.bind(Net.java:461)
  at java.base/sun.nio.ch.Net.bind(Net.java:453)
  at java.base/sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:227)
  at java.base/sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:80)
  at java.base/sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:73)
  at com.android.ddmlib.internal.jdwp.JdwpProxyServer.startAsServer(JdwpProxyServer.java:131)
  at com.android.ddmlib.internal.jdwp.JdwpProxyServer.retryAsServer(JdwpProxyServer.java:256)
  at com.android.ddmlib.internal.jdwp.JdwpProxyServer.runAsFallbackServer(JdwpProxyServer.java:235)
  at com.android.ddmlib.internal.jdwp.JdwpProxyServer.run(JdwpProxyServer.java:314)
  at java.base/java.lang.Thread.run(Thread.java:834)
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