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← C ☆ **[CTS] Android 13 CtsMediaPerformanceTestCases failures**   +1¹   Hotlists (5)   Mark as Duplicate   🔔   ⋮

| Comments (12) | Dependencies | Duplicates (0) | Blocking (0) | Resources (5) |

Fixed   Bug   P3   + Add Hotlist   [AOSP] assigned

👥 **STATUS UPDATE** No update yet.   Edit

📄 **DESCRIPTION** br...@shiftphones.com created issue #1

Related to b/240006222

Build details:
Android version : 13
Build ID: TQ2A.230505.002
Release tag: android-security-13.0.0_r43
CTS version: android-cts-12.0_r4

Test failures:
CtsMediaPerformanceTestCases module

Issue description: The above mentioned tests are failing on both Cts and Cts-on-GSI. Tested and confirmed multiple times.

Attaching logs and results for the entire module run on Cts

4 tests that are based on Transcoding feature fails with NO_MEMORY as the reason.

Request you to help us with this issue.

✓ Mentioned issues (1)   ✓ Links (3)

🐛 **Mentioned issues (1)**

P3   [CTS] Android 12/12.1 CtsMediaTranscodingTestCases failures   "Related to b/240006222"

🔗 **Links (3)**

"Android full bug report (to be captured after reproducing the issue) For steps to capture a bug report, please refer: https://developer.android.com/studio/debug/bug-report#bugreportdevice"

"Attaching logs and results with a full module run with https://android-review.googlesource.com/c/platform/cts/+/2614610 included."

"Please do let me know if you need any additional inputs/support from my side. Since we had no other option, we have ⊖worked around this failure by dropping the performance points for 1920*108

COMMENTS

○ **br...@shiftphones.com** <br...@shiftphones.com>

    📎 **deleted**
    0 B ⊙

    📎 **deleted**
    0 B ⊙

○ **su...@google.com** <su...@google.com> #2
   Assigned to su...@google.com.

Thank you for reporting the issue. Please share the following additional information below:

The provided zip files in comment #1.There are no suspicious logs; please share the new bug report.

Android full bug report (to be captured after reproducing the issue) For steps to capture a bug report, please refer: https://developer.android.com/studio/debug/bug-report#bugreportdevice

Note: Please avoid uploading directly to the issue using attachments. Please upload to google drive and share the folder to android-bugreport@google.com, then share the link here.

○ **br...@shiftphones.com** <br...@shiftphones.com> #3

Hi Sunkesula,

Please find one reference to failure extract from host_log_15785712584039814980.txt which is part of the attached logs zip file:

```
05-30 23:20:11 I/ConsoleReporter: [123/131 arm64-v8a CtsMediaPerformanceClassTestCases S6MQ02056409607] android.mediapc.cts.MultiTranscoderPerfTest#test72
        at java.util.concurrent.FutureTask.report(FutureTask.java:122)
        at java.util.concurrent.FutureTask.get(FutureTask.java:191)
```

```
        at android.mediapc.cts.MultiTranscoderPerfTest.testCodec(MultiTranscoderPerfTest.java:171)
        at android.mediapc.cts.MultiTranscoderPerfTest.test720p(MultiTranscoderPerfTest.java:119)
        ... 8 trimmed
  Caused by: android.media.MediaCodec$CodecException: Failed to initialize OMX.qcom.video.decoder.hevc, error 0xfffffff4 (NO_MEMORY)
        at android.media.MediaCodec.native_setup(Native Method)
        at android.media.MediaCodec.<init>(MediaCodec.java:2000)
        at android.media.MediaCodec.<init>(MediaCodec.java:1978)
        at android.media.MediaCodec.createByCodecName(MediaCodec.java:1948)
        at android.mediapc.cts.Transcode.doTranscode(CodecTranscoderTestBase.java:376)
        at android.mediapc.cts.Transcode.call(CodecTranscoderTestBase.java:402)
        at android.mediapc.cts.Transcode.call(CodecTranscoderTestBase.java:359)
        at java.util.concurrent.FutureTask.run(FutureTask.java:264)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1137)
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:637)
        ... 1 more
```

I hope the attached logs would be helpful. I am working on a potential fix(aosp/2612774) in order to fix this issue. Please let me know if you need any more details.

Thanks.

---

su...@google.com <su...@google.com> #4

Comment has been deleted.

Message last modified on Jun 3, 2023 01:43PM

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su...@google.com <su...@google.com> #5

Thanks for the shared inputs. We have shared this with our product and engineering teams and will update this issue with more information as it becomes available.

---

br...@shiftphones.com <br...@shiftphones.com> #6

Attaching logs and results with a full module run with https://android-review.googlesource.com/c/platform/cts/+/2614610 included.

📎 **logs_2023.06.05_09.59.31.zip**
2.8 MB   Download

📎 **results_2023.06.05_09.59.31.zip**
520 KB   Download

---

br...@shiftphones.com <br...@shiftphones.com> #7

Sorry for the mess in description. Here are the correct details: Build details: Android version : 13 Build ID: TQ2A.230505.002 Release tag: android-13.0.0_r43 CTS version: android-cts-13.0_r4

Also, I am attaching logs+results with `ro.odm.build.media_performance_class` unset.

📎 **logs_2023.06.05_15.03.56.zip**
2.7 MB   Download

📎 **results_2023.06.05_15.03.56.zip**
525 KB   Download

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es...@google.com <es...@google.com> #8

looking at inv_17297822898736196707/device_logcat_test_S6MQ02056409607_16229846146461353203.txt from the logs in comment #7:
this was for
06-05 15:40:33.632 10212 8883 8902 I TestRunner: started: test4k60Decoder(android.mediapc.cts.VideoCodecRequirementsTest)

06-05 15:40:33.643 root   0   0 I msm_vidc: err: Instance count reached Max limit, rejecting session
06-05 15:40:33.643 root   0   0 I msm_vidc: err: Failed to create video instance, core: 0, type = 1
06-05 15:40:33.643 1046 1427 8988 I OMX-VDEC-1080P: component_init: OMX.qcom.video.decoder.avc : fd=-1
06-05 15:40:33.643 1046 1427 8988 E OMX-VDEC-1080P: Omx_vdec::Comp Init Returning failure, errno

seems that something, somewhere is not releasing codec references. This message is coming from the underlying qcom codec -- i expect that part of the chipset licensing is "only allowed N

this could be a case of a separate test having forgotten to invoke release() -- which would lead to resources only being released when garbage collection gets around to recovering the no-lon

---

la...@google.com <la...@google.com> #9

Girish, it seems that this device fails transcoding test, but may not be communicating to the client (app/test) that it is beyond their capabilities (e.g. not failing by InsufficientResources) - so t

---

gi...@google.com <gi...@google.com> #10

From the logs I can see that NO_MEMORY error code has been passed to the app through the CodecException as the Resource Manager fails to reclaim codec (no codecs to reclaim from a l

```
06-05 15:40:27.048  1046  1427  8988 E OMX-VDEC-1080P: Omx_vdec::Comp Init Returning failure, errno 12
06-05 15:40:27.048  1046  1427  8988 E OMX-VDEC-1080P: eventfd_write failed for fd: -1, errno = 9, force stop async_thread
06-05 15:40:27.048  1046  1427  8988 E OMX-VDEC-1080P: Invalid input: -1
06-05 15:40:27.048  1046  1427  8988 I OMX-VDEC-1080P: Exit OMX vdec Destructor: fd=-1
06-05 15:40:27.049  1046  1427  8988 E android.hardware.media.omx@1.0-service: Failed to allocate omx component 'OMX.qcom.video.decoder.hevc'  err=Insuffi
06-05 15:40:27.050 10212  8883 18343 E ACodec  : Unable to instantiate codec 'OMX.qcom.video.decoder.hevc' with err 0xfffffff4.
06-05 15:40:27.050 10212  8883 18343 E ACodec  : signalError(omxError 0xfffffff4, internalError -12)
06-05 15:40:27.050 10212  8883 18342 E MediaCodec: Codec reported err 0xfffffff4/NO_MEMORY, actionCode 0, while in state 1/INITIALIZING
06-05 15:40:27.052 media  1405  1405 E ResourceManagerService: getLowestPriorityBiggestClient_l: lowest priority 0 vs caller priority 0
06-05 15:40:27.056 10212  8883 18341 D MediaCodec: flushMediametrics
06-05 15:40:27.057 10212  8883 18341 W MediaCodec-JNI: try to release MediaCodec from JMediaCodec::~JMediaCodec()...
06-05 15:40:27.057 10212  8883 18341 W MediaCodec-JNI: done releasing MediaCodec from JMediaCodec::~JMediaCodec().
06-05 15:40:27.085 10212  8883  8902 E TestRunner: failed: test1080p[4(Pair{video/hevc OMX.qcom.video.decoder.hevc}_Pair{video/avc OMX.qcom.video.encoder.
06-05 15:40:27.085 10212  8883  8902 E TestRunner: ----- begin exception -----
06-05 15:40:27.088 10212  8883  8902 E TestRunner: android.media.MediaCodec$CodecException: Failed to initialize OMX.qcom.video.decoder.hevc, error 0xffff
06-05 15:40:27.088 10212  8883  8902 E TestRunner:     at android.media.MediaCodec.native_setup(Native Method)
06-05 15:40:27.088 10212  8883  8902 E TestRunner:     at android.media.MediaCodec.<init>(MediaCodec.java:2000)
06-05 15:40:27.088 10212  8883  8902 E TestRunner:     at android.media.MediaCodec.<init>(MediaCodec.java:1978)
06-05 15:40:27.088 10212  8883  8902 E TestRunner:     at android.media.MediaCodec.createByCodecName(MediaCodec.java:1948)
```

ra...@google.com <ra...@google.com>

Reassigned to vi...@google.com.

br...@shiftphones.com <br...@shiftphones.com> #11

Hi Ray/Lajos/Girish,

Please do let me know if you need any additional inputs/support from my side. Since we had no other option, we have 🔗worked around this failure by dropping the performance points for 1

Else, feel free to close this issue.

Thanks.

la...@google.com <la...@google.com> #12

Marked as fixed.

Hi, I think that may be the proper solution here. We use PerformancePoints (and partially getMaxSupportedInstances) to calculate how many concurrent instances a device can support, and