

The flaky bug filing bot runs daily, and will update this bug if it continues to meet the criteria. Failure to meet this criteria doesn't mean

the bug is fixed. If you already have an open bug for this, please duplicate this bug against it to prevent this bot from filing another.

You can view the failures by visiting go/androidx-tests, opening the hamburger menu on the top left, selecting the appropriate product, locating your tests, and following the link to the failures. To locate the last good/first breaking build, you can either scroll to the right until you find the first green build, or you can use the tool at go/find-a-break-androidx.

\*[priority: P1]\*

\*[hotlists: 2230173]\*

ki...@google.com <ki...@google.com> #3

Reassigned to al...@google.com.

Alan - is this yours or Chris's?

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

java.lang.AssertionError: Expected DESTROYED never happened to androidx.appcompat.app.NightModeRotateDoesNotRecreateActivity@5a75c5a. Current state:RESUMED Expected: is <true>

but: was <false>

at org.hamcrest.MatcherAssert.assertThat(MatcherAssert.java:20)

at androidx.testutils.LifecycleOwnerUtils.waitUntilState(LifecycleOwnerUtils.java:83)

at androidx.testutils.LifecycleOwnerUtils.waitForRecreation(LifecycleOwnerUtils.java:135)

at androidx.appcompat.testutils.NightModeUtils.setNightModeAndWaitForRecreate(NightModeUtils.kt:114) at androidx.appcompat.testutils.NightModeUtils.setNightModeAndWaitForRecreate(NightModeUtils.kt:97)

at androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase.testRotateDoesNotRecreateActivity(NightModeRotateDoesNotRecreateActivityTestCase.kt:57)

at java.lang.reflect.Method.invoke(Native Method)

at org.junit.runners.model.FrameworkMethod\$1.runReflectiveCall(FrameworkMethod.java:50)

at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)

 $at\ org. junit. runners. model. Framework Method. invoke Explosively (Framework Method. java: 47)$ 

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

Hard to tell! I added the DESTROYED check as a canary -- it probably indicates something is wrong with the device or adjacent tests. Previously that was the dialogs.

It's my test and my check, so I'll try to look into this when I have a free hour. Likely Thursday.

Chris or Kirill -- if you happen to have time before then and would like to help diagnose, I'd appreciate it.

ti...@google.com <ti...@google.com><u>#6</u>

\* Originally From: sjgilbert@google.com \*

androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase has been flaking on products:
API 28: Pixel 2016

Here's the definition of 'flake' in this context: Consider the last 30 test runs broken into 3 intervals of 10. It is a flaky test if the it displays a <fail, pass, fail> pattern across these intervals.An interval is considered a 'fail' if a single test run within the interval has a failing status. Similarly, an interval is considered a 'pass' if the test passes at least once in that interval.

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\*[priority: P1]\* \*[hotlists: 2230173]\*

ti...@google.com <ti...@google.com>#7

\* Originally From: sjgilbert@google.com \*

androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase has been flaking on products:
API 28: Pixel 2016

Here's the definition of 'flake' in this context: Consider the last 30 test

runs broken into 3 intervals of 10. It is a flaky test if the it displays a <fail, pass, fail> pattern across these intervals. An interval is considered a 'fail' if a single test run within the interval has a failing status. Similarly, an interval is considered a 'pass' if the test passes at least once in that interval.

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\*[priority: P1]\* \*[hotlists: 2230173]\*

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

\* Originally From: <a href="mailto:sjgilbert@google.com">sjgilbert@google.com</a> \*

androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase has been flaking on products:
API 28: Pixel 2016

Here's the definition of 'flake' in this context: Consider the last 30 test runs broken into 3 intervals of 10. It is a flaky test if the it displays a <fail, pass, fail> pattern across these intervals. An interval is considered a 'fail' if a single test run within the interval has a failing status. Similarly, an interval is considered a 'pass' if the test passes at least once in that interval.

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\*[priority: P1]\* \*[hotlists: 2230173]\*

### al...@google.com <al...@google.com>\_#9

Accepted by al...@google.com.

```
java.lang.AssertionError: Expected DESTROYED never happened to androidx.appcompat.app.NightModeRotateDoesNotRecreateActivity@f362459. Current state:RESUMF Expected: is <true>
but: was <false>
at org.hamcrest.MatcherAssert.assertThat(MatcherAssert.java:20)
at androidx.testutils.LifecycleOwnerUtils.waitUntilState(LifecycleOwnerUtils.java:83)
at androidx.testutils.LifecycleOwnerUtils.waitForRecreation(LifecycleOwnerUtils.java:135)
at androidx.appcompat.testutils.NightModeUtils.setNightModeAndWaitForRecreate(NightModeUtils.kt:115)
at androidx.appcompat.testutils.NightModeUtils.setNightModeAndWaitForRecreate(NightModeUtils.kt:98)
at androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase.testRotateDoesNotRecreateActivity(NightModeRotateDoesNotRecreateActivityTat.java.lang.reflect.Method.invoke(Native Method)
```

Failure seems to co-occur with some other tests.

Occasionally:

- $\bullet \quad and roid x. app compat. app. Night Mode Default Only Test Case \\$
- androidx.appcompat.app.NightModePreventOverrideConfigTestCase (only the [0] config)
- androidx.appcompat.app.NightModeTestCase (only the [0] config)

### Always:

- androidx.appcompat.app.NightModeRotateDoesNotRecreateActivityTestCase (only the [0] config)
- androidx.appcompat.app.NightModeRotateRecreatesActivityWithConfigTestCase (only the [0] config)

# al...@google.com <al...@google.com><u>#10</u>

Normal execution. Note how the lifecycle event occurs immediately (~4ms) after the mode change:

```
01-01 00:10:37.978 10801 10816 D NightModeUtils: setNightModeAndWaitForRecreate on Activity: androidx.appcompat.app.NightModeCustomAttachBaseContextActivity 01-01 00:10:37.978 671 671 D QCOM PowerHAL: LAUNCH HINT: OFF
01-01 00:10:37.982 10801 10801 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeCustomAttachBaseContextActivity@ddad2e9 in: PA
01-01 00:10:37.982 10801 10801 D LifecycleMonitor: running callback: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.982 10801 10801 D LifecycleMonitor: callback completes: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.983 10801 10801 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeCustomAttachBaseContextActivity@ddad2e9 in: ST
01-01 00:10:37.984 10801 10801 D LifecycleMonitor: running callback: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.984 10801 10801 D LifecycleMonitor: callback completes: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.985 10801 10801 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeCustomAttachBaseContextActivity@ddad2e9 in: DF
01-01 00:10:37.985 10801 10801 D LifecycleMonitor: running callback: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.985 10801 10801 D LifecycleMonitor: running callback: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.985 10801 10801 D LifecycleMonitor: callback completes: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
01-01 00:10:37.985 10801 10801 D LifecycleMonitor: callback completes: androidx.test.rule.ActivityTestRule$LifecycleCallback@2698764
```

#### Failed executions.

```
01-01 00:10:43.385 10801 10816 D NightModeUtils: setNightModeAndWaitForRecreate on Activity: androidx.appcompat.app.NightModeRotateDoesNotRecreateActivity 01-01 00:10:43.394 653 933 W DeviceHAL: Error from HAL Device in function open_input_stream: Invalid argument 01-01 00:10:43.395 2262 2262 I MicroDetector: Keeping mic open: false 01-01 00:10:43.396 2262 4273 I MicroRecognitionRunner: Stopping hotword detection. 01-01 00:10:43.400 2262 10959 I AudioController: internalShutdown 01-01 00:10:43.400 494 1880 W SurfaceFlinger: Attempting to set client state on removed layer: Splash Screen androidx.appcompat.test#0 01-01 00:10:43.400 494 1880 W SurfaceFlinger: Attempting to destroy on removed layer: Splash Screen androidx.appcompat.test#0 01-01 00:10:43.400 2262 10965 I DeviceStateChecker: DeviceStateChecker cancelled 01-01 00:10:43.404 893 12038 I AudioFlinger: AudioFlinger's thread OxelcO9b00 tid=12038 ready to run 01-01 00:10:43.420 893 1200 I SoundTriggerHwService::Module: onCallbackEvent no clients 01-01 00:10:43.422 2262 10958 I MicrophoneInputStream: mic_started SR: 16000 CC: 16 SO: 1999
```

```
01-01 00:11:00.084 10801 10816 D NightModeUtils: setNightModeAndWaitForRecreate on Activity: androidx.appcompat.app.NightModeActivity@9ec425 to mode: 2 us 01-01 00:11:00.085 2190 3418 I PlaceInferenceEngine: [anon] Changed inference mode: 1 01-01 00:11:00.087 2190 12056 I Places : ?: Couldn't find platform key file. 01-01 00:11:00.088 2190 11669 I Places : ?: Couldn't find platform key file. 01-01 00:11:00.092 2262 10965 E PlaceStateUpdater: Received no places 01-01 00:11:00.094 2190 11552 I Places : ?: Couldn't find platform key file. 01-01 00:11:00.094 671 671 D QCOM PowerHAL: LAUNCH HINT: OFF 01-01 00:11:00.100 494 537 W SurfaceFlinger: Attempting to destroy on removed layer: dadd87d AssistPreviewPanel#0 01-01 00:11:00.101 2190 3418 I PlaceInferenceEngine: Too few candidate results: percentageOfMissingArea 100 01-01 00:11:00.103 2262 2262 I MicroDetectionWorker: onReady 01-01 00:11:00.103 909 1185 I WindowManager: Screen frozen for +575ms due to Window{a52960d u0 StatusBar}
```

Nothing obviously similar between the two failures. Screenshots look normal-ish and show the "before" activity state, e.g. the failures for NightModeTestCase are day mode.

### ap...@google.com <ap...@google.com>#11

Project: platform/frameworks/support Branch: androidx-master-dev

 $commit\ cd849d2fb6de91cff245238898ade23678c73fb5$ 

Author: Alan Viverette < alanv@google.com >

Date: Thu Apr 30 12:28:58 2020

Enable verbose debugging for AppCompat night mode

Hopefully we can catch the flake.

Bug: 152673431

Test: and roidx. app compat. app. Night Mode Rotate Does Not Recreate Activity Test Case Change-Id: 1879f238f3fe5e881d9c896548e08f10e3674ca56

M appcompat/appcompat/src/main/java/androidx/appcompat/app/AppCompatDelegate.java

 $M \qquad app compat/app compat/src/main/java/androidx/app compat/app/App Compat Delegate Impl. java app compat/app compat/ap$ 

 $\underline{https://android\text{-}review.googlesource.com/1299229}$ 

https://goto.google.com/android-sha1/cd849d2fb6de91cff245238898ade23678c73fb5

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

I think b/155379937 exposed the root cause — if there are entries in sActiveDelegates with duplicate Context, Resources, or Configuration objects, then we may end up flipping the ni Working hypothesis is that we have two entries representing two different Activity objects with the same Configuration. We may or may not attempt to recreate the first (dead) activity, the same Configuration is the same Configuration in the same Configuration is the same Configuration is the same Configuration in the same Configuration is the same Config

### al...@google.com <al...@google.com>#13

Tentatively, we could work around in a couple of ways:

- 1. Freeze the initial delegate configuration state before traversing  $\,{\tt sActiveDelegates}$
- 2. Always re-apply uiMode and recreate() even if the mode is already set correctly
- 3. Throw an exception if a new delegate shares a Configuration with an existing delegate

I think freezing the state would be the most reliable option. Shared configurations seem WAI on certain API levels and re-applying doesn't seem consistent with the platform behavior.

This is still all theoretical -- I haven't gotten a stable repro or any verbose debug logs from this flake.

Ν	essage last modified on May 15, 2020 03:57AM					
С	ch@google.com <ch@google.com> #14</ch@google.com>					
Agreed, #1 seems the most logical to me.						
al@google.com <al@google.com><u>#15</u></al@google.com>						
L	ooking at a corecent instance of the flake on SDK 28:					
	01-01 00:28:07.343 16481 16481 D AppCompatDelegate: setDefaultNightMode. New:1, Current:2					
	01-01 00:28:07.343 16481 16481 D AppCompatDelegate: applyDayNightToActiveDelegates. Applying to androidx.appcompat.app.AppCompatDelegateImpl@a9f5249					
	01-01 00:28:07.344 16481 D AppCompatDelegate: updateForNightMode [allowRecreation:true, currentNightMode:32, newNightMode:16, activityHandlingU:					
	01-01 00:28:07.344 16481 16481 D AppCompatDelegate: updateForNightMode not recreating Activity: androidx.appcompat.app.AlertDialog@9e60f79					
	01-01 00:28:07.344 16481 16481 D AppCompatDelegate: updateForNightMode. Updating resources config on host: androidx.appcompat.app.AlertDialog@9e60f79					
	01-01 00:28:07.349 16481 16481 D AppCompatDelegate: applyDayNightToActiveDelegates. Applying to androidx.appcompat.app.AppCompatDelegateImpl@ae6c06f					
	01-01 00:28:07.350 16481 16481 D AppCompatDelegate: updateForNightMode [allowRecreation:true, currentNightMode:16, newNightMode:16, activityHandlingU					
	01-01 00:28:07.350 16481 16481 D AppCompatDelegate: updateForNightMode not recreating Activity: androidx.appcompat.app.AppCompatActivity@Id80087					
	01-01 00:28:07.350 16481 16481 D AppCompatDelegate: updateForNightMode. Skipping. Night mode: 1 for host:androidx.appcompat.app. AppCompatActivity@1d8					
	01-01 00:28:07.350 16481 16481 D AppCompatDelegate: applyDayNightToActiveDelegates. Applying to androidx appcompat.app. AppCompatDelegateImpl@7bbf17c					
	01-01 00:28:07.351 16481 16481 D AppCompatDelegate: updateForNightMode [allowRecreation:true, currentNightMode:16, newNightMode:16, activityHandlingU 01-01 00:28:07.351 16481 16481 D AppCompatDelegate: updateForNightMode not recreating Activity: androidx.appcompat.app.AlertDialog@464e0fd					
	01-01 00:28:07.351 16481 16481 D AppCompatDelegate: updateForNightMode. Skipping. Night mode: 1 for host:androidx.appcompat.app. AlertDialog@464e0fd					
	01-01 00:28:07.353 16481 16497 E TestRunner: failed: testNightModeChangeWhenInBackground(androidx.appcompat.app.NightModeDefaultOnlyTestCase)					
	01-01 00:28:07.353 16481 16497 E TestRunner: begin exception					
	01-01 00:28:07.355 16481 16497 E TestRunner: java.lang.AssertionError: Expected DESTROYED never happened to androidx.appcompat.app.AppCompatActivity@					
	@google.com <al@google.com>_#16</al@google.com>					
	ill unable to submit.					
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# $\textbf{al...@google.com} < \hspace{-0.5em} \texttt{al...@google.com} > \hspace{-0.5em} \underline{\texttt{\#17}}$

My best guess right now is that the IME is taking up system resources, so the app starts up and meets the criteria for LifecycleOwnerUtils. waitUntilState(activity, Lifecycle.Stat The failure screenshot is empty, so there's a decent chance the app never gets displayed. Seems like a recurring theme in flaky tests.

# al...@google.com <al...@google.com><u>#18</u>

I'm going try waiting until the window has focus, rather than checking and immediately aborting.

ap...@google.com <ap...@google.com> #19 Project: platform/frameworks/support Branch: androidx-master-dev commit 8e9ee0661573d9eff50b99b43af92252c09f478e Author: Alan Viverette <a href="mailto:alanv@google.com">alanv@google.com</a>> Date: Mon May 11 12:47:01 2020 Fix NightModeRotateDoesNotRecreateActivity failure on emulator Second parameterized run was catching the old activity, so now we restart the activity and are more careful to clear the default night mode on failure. Also added some sanity checks when we're changing night mode. Bua: 152673431 Test: NightModeRotateDoesNotRecreateActivity Change-Id: Icd4bac8473aec243bd9912690b7f1f715fc1bc11 app compat/app compat/src/and roid Test/java/and roid x/app compat/app/Night Mode Rotate Does Not Recreate Activity Test Case. kt and roid x/app compat/app/Night Mode Rotate Does Not Recreate Activity Test Case. kt and roid x/app compat/app/Night Mode Rotate Does Not Recreate Activity Test Case. kt and roid x/app compat/app/Night Mode Rotate Does Not Recreate Activity Test Case. kt and roid x/app compat/app compaapp compat/app compat/src/and roid Test/java/and roid x/app compat/test utils/Night Mode Utils.kthttps://android-review.googlesource.com/1308513 al...@google.com <al...@google.com> Marked as fixed. sj...@google.com <sj...@google.com>#20 Status: Assigned (reopened) Still appears to be flaking. sj...@google.com <sj...@google.com><u>#21</u> On SC: https://android-build.googleplex.com/builds/tests/view?invocationId=118300006486129606&testResultId=TR33914834901748643 al...@google.com <al...@google.com>#22 java. lang. AssertionError: Expected RESUMED never happened to androidx. appcompat. app. NightModeActivity@89bccbf. Current state:DESTROYED Expected: is <true> but: was <false> at org. hamcrest. MatcherAssert. assertThat (MatcherAssert. java:20)  $at\ and roidx.\ testutils.\ Lifecycle 0 wner Utils.\ wait Until State\ (Lifecycle 0 wner Utils.\ java: 82)$ at androids, apprompat, testutils, NightModeUtils, setNightModeAndWaitForRecreate(NightModeUtils, kt:114)  $at\ and roidx. app compat. test utils. Night \texttt{Mode} \texttt{Utils}. set \texttt{Night} \texttt{Mode} \texttt{And} \texttt{Wait} For \texttt{Recreate} \ (\texttt{Night} \texttt{Mode} \texttt{Utils}. \texttt{kt}: 100)$  $at\ and roid x.\ app. compat.\ app.\ Night Mode Rotate Recreates Activity With Config Test Case.\ test Rotate Recreates Activity With Config (Night Mode Rotate Recreates Activity With Config Configuration Confi$ at java, lang, reflect, Method, invoke (Native Method) From logcat, some background service is failing over and over: 11-08 11:54:37.663 544 564 E IorapForwardingService: Transaction failed on small parcel; remote process probably died 564 E IorapForwardingService: android.os.DeadObjectException: Transaction failed on small parcel; remote process probably died 11-08 11:54:37.663 544 11-08 11:54:37.663 544 564 E IorapForwardingService: at android.os.BinderProxy.transactNative(Native Method) 11-08 11:54:37.663 544 564 E IorapForwardingService: at android.os.BinderProxy.transact(BinderProxy.java:550) 11-08 11:54:37.663 544 564 E IorapForwardingService: at com. google. android. startop. iorap. IIorap\$Stub\$Proxy. onAppLaunchEvent(IIorap. java: 427) 11-08 11:54:37.663 544 564 E IorapForwardingService: at com. google. android. startop. iorap. IorapForwardingService\$AppLaunchObserver. lambda\$onActiv 11-08 11:54:37.663 544 564 E IorapForwardingService:  $at \verb| com.google. and roid. startop. iorap. - \$\$ Lambda\$ Iorap Forwarding Service \$ App Launch 0 bserver \$ oL4q Interval to the start of the start$ 11-08 11:54:37.663 544 564 E IorapForwardingService:  $at \verb| com. google. and roid. startop. io rap. Io rap Forwarding Service. invoke Remote (Io rap Forwarding Service) and roid. The removal of the roid of the roid$ 11-08 11:54:37.663 544 564 E IorapForwardingService: at com. google. android. startop. iorap. IorapForwardingService. access\$500 (IorapForwardingService) But near the test failure there's just: 11-08 11:58:22.043 4965 4987 D NightModeUtils: setNightModeAndWaitForRecreate on Activity: androidx.appcompat.app.NightModeActivity@89bccbf to mode: 2 v 11-08 11:58:22.925 958 986 E MmTelFeatureConn [0]: ImsRegistrationCallbackAdapter: ImsRegistration is null 11-08 11:58:27.983 958 986 E MmTelFeatureConn [0]: ImsRegistrationCallbackAdapter: ImsRegistration is null 11-08 11:58:32.655 544 5976 W TelephonyManager: requestModemActivityInfo: Received an invalid ModemActivityInfo  $11-08\ 11:58:32.655 \qquad 544 \quad 5976\ W\ Battery External Stats Worker:\ error\ reading\ modem\ stats: ERROR\_INVALID\_INFO\_RECEIVED$ 11-08 11:58:33.042 958 986 E MmTelFeatureConn [0]: ImsRegistrationCallbackAdapter: ImsRegistration is null 11-08 11:58:37.061 4965 4965 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeActivity@dae00f3 in: PAUSED 11-08 11:58:37.061 4965 U LifecycleMonitor: running callback: androidx.test.rule.ActivityTestRule\$LifecycleCallback@658e5a4 11-08 11:58:37.061 4965 4965 D LifecycleMonitor: callback completes: androidx.test.rule.ActivityTestRule\$LifecycleCallback@658e5a4 11-08 11:58:37.066 4965 4987 E TestRunner: failed: testRotateRecreatesActivityWithConfig[0] (androidx.appcompat.app.NightModeRotateRecreatesActivityWithConfig[0]) 11-08 11:58:37.066 4965 4987 E TestRunner: ---- begin exception ---11-08 11:58:37.067 4965 4987 E TestRunner: java.lang.AssertionError: Expected RESUMED never happened to androidx.appcompat.app.NightModeActivity@89bccbf

```
11-08 11:58:37.067 4965 4987 E TestRunner: Expected: is <true>
  11-08 11:58:37.067 4965 4987 E TestRunner:
So we request the change and then nothing happens for 15 seconds, then it fails.
al...@google.com <al...@google.com> #23
Ah, except that window ID is from way earlier where it seems to hit a Window Session Crash on... possibly some other window? And then there are a ton of "resource failed to call release" me
  11-08 11:58:16.669 4965 4965 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app. NightModeActivity@89bccbf in: RESUMED
  11-08 11:58:16.824
                       544 5575 W InputManager-JNI: Input channel object '7f829bd com.google.android.apps.nexuslauncher/com.google.android.apps.nexuslaunch
  11-08 11:58:16.824
                      544 5575 W InputDispatcher: Attempted to unregister already unregistered input channel
  11-08 11:58:16.848 4965 4979 I .appcompat.tes: Background concurrent copying GC freed 83477(3643KB) AllocSpace objects, 1(20KB) LOS objects, 49% free, 1
  11-08 11:58:16.851 408 408 W SurfaceFlinger: couldn't log to binary event log: overflow.
  11-08 11:58:16.874 544 5729 E WindowManager: Window Session Crash
  11-08 11:58:16.874 5729 E WindowManager: java.lang.IllegalArgumentException: Requested window android.os.BinderProxy@f459d14 does not exist
                      544 5729 E WindowManager:
  11-08 11:58:16.874
                                                         at com. android. server. wm. WindowManagerService. windowForClientLocked(WindowManagerService. java: 5565)
  11-08 11:58:16,874
                       544 5729 E WindowManager:
                                                         at com. android. server. wm. WindowManagerService, windowForClientLocked(WindowManagerService, java: 5557)
                       544 5729 E WindowManager:
  11-08 11:58:16.874
                                                         at com. android. server. wm. WindowManagerService. reportSystemGestureExclusionChanged (WindowManagerServ
  11-08 11:58:16.874 544 5729 E WindowManager:
                                                         at com. android. server. wm. Session. reportSystemGestureExclusionChanged (Session. java: 480)
  11-08 11:58:16.874 544 5729 E WindowManager:
                                                         at android. view. IWindowSession$Stub. onTransact(IWindowSession. java:1240)
  11-08 11:58:16.874 544 5729 E WindowManager:
                                                         at com. android. server. wm. Session. onTransact(Session. java:163)
  11-08 11:58:16.874 544 5729 E WindowManager:
                                                         at android. os. Binder. execTransactInternal (Binder. java: 1182)
  11-08 11:58:16.874
                       544 5729 E WindowManager:
                                                         at android.os.Binder.execTransact(Binder.java:1141)
  11-08 11:58:16.875
                      544 5729 W Binder : Caught a RuntimeException from the binder stub implementation.
  11-08 11:58:16.875 544 5729 W Binder : java.lang.IllegalArgumentException: Requested window android.os.BinderProxy@f459d14 does not exist
  11-08 11:58:16.875 544 5729 W Binder : at com. android. server. wm. WindowManagerService. windowForClientLocked (WindowManagerService. java:5565)
  11-08 11:58:16.875 544 5729 W Binder : at com. android. server. wm. WindowManagerService. windowForClientLocked(WindowManagerService. java:5557)
  11-08 11:58:16.875 544 5729 W Binder :
                                                at com. android. server. wm. WindowManagerService. reportSystemGestureExclusionChanged (WindowManagerService. java
  11-08 11:58:16.875
                       544 5729 W Binder :
                                                 at com. android, server, wm. Session, reportSystemGestureExclusionChanged (Session, java: 480)
  11-08 11:58:16.875
                       544 5729 W Binder :
                                                 at android.view.IWindowSession$Stub.onTransact(IWindowSession.java:1240)
  11-08 11:58:16.875
                       544 5729 W Binder :
                                                 at com. android. server. wm. Session. onTransact (Session. java:163)
  11-08 11:58:16.875 544 5729 W Binder :
                                                 at android. os. Binder. execTransactInternal (Binder. java: 1182)
```

Then we start another activity, but the recreate seems to happen on the one that was destroyed a long time ago (object 89bccbf):

```
11-08 11:58:22.043 4965 4987 D NightModeUtils: setNightModeAndWaitForRecreate on Activity: androidx.appcompat.app.NightModeActivity@89bccbf to mode: 2 υ
```

at android.os. Binder. execTransact (Binder. java:1141)

11-08 11:58:17.073 544 573 I ActivityTaskManager: Displayed androidx.appcompat.test/androidx.appcompat.app.NightModeActivity: +571ms
11-08 11:58:17.076 4965 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeActivity@89bccbf in: PAUSED
11-08 11:58:17.077 4965 4965 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeActivity@89bccbf in: STOPPED
11-08 11:58:17.078 4965 D LifecycleMonitor: Lifecycle status change: androidx.appcompat.app.NightModeActivity@89bccbf in: DESTROYED

So we must be hitting a race condition or stale data or something.

11-08 11:58:16.875 544 5729 W Binder :

11-08 11:58:17.006 4965 4981 W System : A resource failed to call release. 11-08 11:58:17.006 4965 4981 W System : A resource failed to call release.

11-08 11:58:17.071 4965 4981 W System : A resource failed to call release.

# al...@google.com <al...@google.com><u>#24</u>

 $\dots$  way more of those  $\dots$ 

Yeah, the ActivityTestRule is giving us a stale activity for some reason.

### al...@google.com <al...@google.com>#25

+cc brettchabot since (1) he owns this file and (2) we were just talking about things that are hard to test. We're simulating screen rotation here.

### al...@google.com <al...@google.com>#26

Rather, owns ActivityTestRule. I'm going to see if we can bypass it and rely on callbacks or something.

### al...@google.com <al...@google.com>#27

This feels awfully familiar.

We have this in the other DoesNotRecreate test:

```
// Set local night mode to MODE_NIGHT_YES and wait for state RESUMED.
val initialActivity = activityRule.launchActivity(null)
LifecycleOwnerUtils.waitUntilState(initialActivity, Lifecycle.State.RESUMED)
setNightModeAndWaitForRecreate(initialActivity, MODE_NIGHT_YES, setMode)
```

But this in the flaky one:

setNightModeAndWaitForRecreate(activityRule, MODE_NIGHT_YES, setMode)  val activity = activityRule.activity
So we're probably hitting a race condition where the activity is <i>actively</i> restarting when the test begins. I'll update the code to let it settle first.
al@google.com <al@google.com>#28  Brett, if you do happen to check in here, we're launching an activity that in many cases will immediately call Activity. recreate() on itself. This will happen in g3 as well, since most apps</al@google.com>
br@google.com br@google.com>#29  I haven't had a chance to digest all the commentary here yet, but IIUC there are known issues with ActivityTestRule and activity recreation, because it keeps a reference to an Activity.  ActivityScenario should not have this problem.
al@google.com <al@google.com><u>#30</u>  IIRC there was an issue with ActivityScenario not supporting this use case, but I didn't file s bug so shame on me. I'll attempt to migrate and file one if I can't.</al@google.com>
al@google.com <al@google.com>#31  ActivityScenario does not appear to be able to handle Activity.recreate() being called by anything other than ActivityScenario.recreate(), which means it's not going to work for the second seco</al@google.com>
al@google.com <al@google.com><u>#32</u>  And, generally, it doesn't look like ActivityScenario is a good choice for testing the interaction between AppCompat/Core and that platform's actual lifecycle events, given that it drives its</al@google.com>
al@google.com <al@google.com>_#33  Fix CL currently failing on CF 29 where it fails to detect activity recreate().  Does that mean the activity is not recreated? Unclear.</al@google.com>
al@google.com <al@google.com>_#34  Accepted by al@google.com.  Hah, the failure screenshot is mid-rotation animation. I think what may be happening is that either (a) it's getting stuck or (b) it's destroying the activity in the background but the animation is What we actually want is a sync point for activity creation.</al@google.com>
androidx.appcompat.app.NightModeRotateRecreatesActivityWithConfigTestCase#testRotateRecreatesActivityWithConfig[0]-127.0.0.1_35847-screenshot-on-failure_70899961860
ap@google.com <ap@google.com><u>#35</u>  Marked as fixed.  Project: platform/frameworks/support Branch: androidx-main</ap@google.com>
commit b45f113d7ca003b28b65fa7fd005622d6b61ad00 Author: Alan Viverette <alanv@google.com> Date: Fri Nov 13 17:59:49 2020  Fix race condition in Recreates test by mirroring DoesNotRecreate setup  Also updates DoesNotRecreate to fix Kotlin lint warnings.  Test: NightModeRotate*ActivityTestCase Fixes: 152673431  Bug: 174742601  Change-Id: I64dc2006534bd39d8da1f4fe8f37cd8814cb3a50</alanv@google.com>
<ul> <li>M appcompat/appcompat/src/androidTest/java/androidx/appcompat/app/NightModeActivity.java</li> <li>M appcompat/appcompat/src/androidTest/java/androidx/appcompat/app/NightModeRotateDoesNotRecreateActivityTestCase.kt</li> <li>M appcompat/appcompat/src/androidTest/java/androidx/appcompat/app/NightModeRotateRecreatesActivityWithConfigTestCase.kt</li> </ul>

// Set local night mode to YES

https://android-review.googlesource.com/1530721