

WAI

Bug

P2

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adexe s nau

STATUS UPDATE No update yet. 

Edit

DESCRIPTION

ja...@veeva.com created issue **#1**

Component used: Baseline Profiles

Version used: AGP=7.3.0-rc01, uiautomator=2.2.0 & benchmark-macro-junit4=1.1.0

Devices/Android versions reproduced on:

```
testOptions {
    managedDevices {
        devices {
            pixel2Api31(com.android.build.api.dsl.ManagedVirtualDevice) {
                device = "Pixel 2"
                apiLevel = 31
                systemImageSource = "aosp"
            }
        }
    }
}
```

- **Sample project** to trigger the issue: <https://github.com/leinardi/Forlago/tree/baseline-profiles>

**Issue description:**

My team is trying to implement the **Baseline profiles**([see official documentation](#)) for our app. Following the steps indicated in this video([see Improving Performance with Baseline Profiles](#)) if we us

```
./gradlew :macrobenchmark:pixel2Api31BenchmarkAndroidTest -P android.testInstrumentationRunnerArguments.class=com.example.BaselineProfileGenerator

com.example.BaselineProfileGenerator > generate[pixel2Api31] FAILED
    java.lang.IllegalStateException: Unable to confirm activity launch completion [] Please report a bug with the output of `adb shell dumpsys gfxinfo com.example.app`
        at androidx.benchmark.macro.MacrobenchmarkScope.startActivityImpl(MacrobenchmarkScope.kt:179)
Tests on pixel2Api31 failed: There was 1 failure(s).
```

This is how it looks like our *BaselineProfileGenerator*:

```
@OptIn(ExperimentalBaselineProfilesApi::class)
@RunWith(AndroidJUnit4ClassRunner::class)
class BaselineProfileGenerator {
    @get:Rule
    val rule = BaselineProfileRule()

    @Test
    fun generate() {
        rule.collectBaselineProfile("com.example.app") {
            pressHome()
            startActivityAndWait()
        }
    }
}
```

If we configure the benchmark for *Debug* it works well:

```
benchmark {
    initWith buildTypes.debug
    signingConfig signingConfigs.debug
    matchingFallbacks = ['debug']
    debuggable false
    proguardFiles('benchmark-rules.pro')
}
```

But configuring it for *Release*, benchmark throws the previous exception when you try to generate it.

```
benchmark {
    initWith buildTypes.release
    signingConfig signingConfigs.debug
}
```

```
matchingFallbacks = ['release']
debuggable false
proguardFiles('benchmark-rules.pro')
}
```

✓ Links (4)

🔗 Links (4)

"Sample project to trigger the issue: <https://github.com/leinardi/Forlago/tree/baseline-profiles>"

"...am is trying to implement the Baseline profiles( [🔗official documentation](#) ) for our app. Following the steps indicated in this video(Improving Performance with Baseline Profiles) if we use the DebugBuild"

"...rying to implement the Baseline profiles(official documentation) for our app. Following the steps indicated in this video( [🔗Improving Performance with Baseline Profiles](#) ) if we use the DebugBuild"

"Could you [🔗file a bug](#) with the details to the Macrobenchmark library component as this might be a different problem. Thank y..."

COMMENTS



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

Can you double check and make sure your app is getting launched and not crashing ?

Also, if you could send us all the messages in logcat with the log tag `Benchmark` , that would be very helpful.



ja...@veeva.com <ja...@veeva.com> [#3](#)

Yes, when I run the command below to generate the Basesile profile file, the app is launched in the virtual device but I get the next exception.

```
./gradlew :macrobenchmark:pixel2Api31BenchmarkAndroidTest -P android.testInstrumentationRunnerArguments.class=com.leinardi.forlago.BaselineProfileGenerator
```

This is the result that we have on Logcat:

1. Filtering Benchmark:

```
08-26 08:38:34.702 2296 2313 D Benchmark: Usable output directory: /storage/emulated/0/Android/media/com.leinardi.forlago.macrobenchmark
08-26 08:38:34.702 2296 2313 D Benchmark: Output Directory: /sdcard/Android/media/com.leinardi.forlago.macrobenchmark/additional_test_output
08-26 08:38:34.735 2296 2313 D Benchmark: Killing process com.leinardi.forlago
08-26 08:38:34.747 2296 2313 D Benchmark: Resetting com.leinardi.forlago
08-26 08:38:34.781 2296 2313 D Benchmark: Copying APK to /data/local/tmp/com.leinardi.forlago-1661495914781.apk
08-26 08:38:34.820 2296 2313 D Benchmark: Uninstalling com.leinardi.forlago
08-26 08:38:34.912 2296 2313 D Benchmark: Installing com.leinardi.forlago
08-26 08:38:35.334 2296 2313 D Benchmark: Deleting /data/local/tmp/com.leinardi.forlago-1661495914781.apk
08-26 08:38:35.345 2296 2313 D Benchmark: Profile Installation Skip File Operation: WRITE_SKIP_FILE
08-26 08:38:36.948 2296 2313 D Benchmark: Killing process com.leinardi.forlago
08-26 08:38:38.045 2296 2313 D Benchmark: Starting activity with command: am start -W ~intent:#Intent;action=android.intent.action.MAIN;category=android
08-26 08:38:40.054 2296 2313 D Benchmark: Result: Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.category.LAUNCHER] flg=0x1000800C
08-26 08:38:40.054 2296 2313 D Benchmark: Status: ok
08-26 08:38:40.054 2296 2313 D Benchmark: LaunchState: COLD
08-26 08:38:40.054 2296 2313 D Benchmark: Activity: com.leinardi.forlago/.ui.MainActivity
08-26 08:38:40.054 2296 2313 D Benchmark: TotalTime: 1934
08-26 08:38:40.054 2296 2313 D Benchmark: WaitTime: 1935
08-26 08:38:40.054 2296 2313 D Benchmark: Complete
08-26 08:38:52.325 2296 2313 D Benchmark: Killing process com.leinardi.forlago
```

2. Complete Logcat result:

2022-08-26 08:41:55.764	524-556	ActivityTaskManager	system_process	I	Displayed com.leinardi.forlago/.ui.MainActivity: +ls8
2022-08-26 08:41:55.764	524-835	ActivityTaskManager	system_process	W	Force finishing activity com.leinardi.forlago/.ui.Ma
2022-08-26 08:41:55.776	2547-2547	Process	com.leinardi.forlago	I	Sending signal. PID: 2547 SIG: 9
2022-08-26 08:41:55.790	524-725	ActivityManager	system_process	I	Process com.leinardi.forlago (pid 2547) has died: fg
2022-08-26 08:41:55.790	524-836	WindowManager	system_process	I	WIN DEATH: Window{9146b48 u0 com.leinardi.forlago/com.
2022-08-26 08:41:55.790	524-836	InputManager-JNI	system_process	W	Input channel object '9146b48 com.leinardi.forlago/com
2022-08-26 08:41:55.792	1297-1532	MediaProvider	com.android.providers.media.module	I	Deleted 0 0 0 0 0 1 items on external_primary due to
2022-08-26 08:41:55.793	524-725	InputManager-JNI	system_process	W	Input channel object 'd0082ce Splash Screen com.leinar
2022-08-26 08:41:55.801	2295-2312	Benchmark	com.leinardi.forlago.macrobenchmark	D	Result: Starting: Intent { act=android.intent.action.M
					Status: ok
					LaunchState: COLD
					Activity: com.leinardi.forlago/.ui.MainActivity
					TotalTime: 1895
					WaitTime: 1897
					Complete
2022-08-26 08:41:56.264	524-559	ActivityTaskManager	system_process	W	Activity top resumed state loss timeout for ActivityRe
2022-08-26 08:42:08.557	2295-2312	Benchmark	com.leinardi.forlago.macrobenchmark	D	Killing process com.leinardi.forlago
2022-08-26 08:42:08.580	524-2583	ActivityManager	system_process	I	Force stopping com.leinardi.forlago appid=10107 user=C
2022-08-26 08:42:08.588	2295-2312	TestRunner	com.leinardi.forlago.macrobenchmark	E	failed: generate(com.leinardi.forlago.BaselineProfileC
2022-08-26 08:42:08.589	2295-2312	TestRunner	com.leinardi.forlago.macrobenchmark	E	----- begin exception -----
2022-08-26 08:42:08.590	2295-2312	TestRunner	com.leinardi.forlago.macrobenchmark	E	java.lang.IllegalStateException: Unable to confirm act

```

at androidx.benchmark.macro.MacrobenchmarkScope.start$
at androidx.benchmark.macro.MacrobenchmarkScope.start$
at androidx.benchmark.macro.MacrobenchmarkScope.start$
at androidx.benchmark.macro.MacrobenchmarkScope.start$
at com.leinardi.forlago.BaselineProfileGenerator.generate$
at com.leinardi.forlago.BaselineProfileGenerator.generate$
at androidx.benchmark.macro.BaselineProfilesKt.collect$
at androidx.benchmark.macro.BaselineProfilesKt.collect$
at androidx.benchmark.macro.CompilationMode$Partial.compile$
at androidx.benchmark.macro.CompilationMode.resetAndCompile$
at androidx.benchmark.macro.BaselineProfilesKt.collect$
at androidx.benchmark.macro.junit4.BaselineProfileRule.run$
at com.leinardi.forlago.BaselineProfileGenerator.generate$
at java.lang.reflect.Method.invoke(Native Method)
at org.junit.runners.model.FrameworkMethod$1.runReflectiveCall$
at org.junit.internal.runners.model.ReflectiveCallable.run$
at org.junit.runners.model.FrameworkMethod.invokeExplosively$
at org.junit.internal.runners.statements.InvokeMethod.evaluate$
at androidx.benchmark.macro.junit4.BaselineProfileRule.run$
at androidx.test.rule.GrantPermissionRule$RequestPermit.run$
at org.junit.rules.RunRules.evaluate(RunRules.java:20)
at org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:236)
at org.junit.runners.BlockJUnit4ClassRunner$1.evaluate$
at org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
at org.junit.runners.BlockJUnit4ClassRunner.runChild(ParentRunner.java:428)
at org.junit.runners.BlockJUnit4ClassRunner.runChild(ParentRunner.java:428)
at org.junit.runners.ParentRunner$4.run(ParentRunner.java:437)
at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:53)
at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:232)
at org.junit.runners.ParentRunner.access$100(ParentRunner.java:57)
at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:227)
at org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:227)
at org.junit.runners.ParentRunner.run(ParentRunner.java:298)
at org.junit.runners.Suite.runChild(Suite.java:128)
at org.junit.runners.Suite.runChild(Suite.java:27)
at org.junit.runners.ParentRunner$4.run(ParentRunner.java:437)
at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:53)
at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:232)
at org.junit.runners.ParentRunner.access$100(ParentRunner.java:57)
at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:227)
at org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:227)
at org.junit.runners.ParentRunner.run(ParentRunner.java:298)
at org.junit.runner.JUnitCore.run(JUnitCore.java:137)
at org.junit.runner.JUnitCore.run(JUnitCore.java:115)
at androidx.test.internal.runner.TestExecutor.execute$
at androidx.test.runner.AndroidJUnitRunner.onStart(AndroidJUnitRunner.java:39)
at android.app.Instrumentation$InstrumentationThread.run$

```

After a process launch, can you please report the output of running `adb shell dumpsys gfxinfo com.leinardi.forlago framestats`.

Sure! But I think it is not going to help so much:

```
Applications Graphics Acceleration Info:
Uptime: 24156 Realtime: 24156
```

```
** Graphics info for pid 2516 [com.leinardi.forlago] **
Profile data in ms:
```

View hierarchy:

Total ViewRootImpl : 0  
Total attached Views : 0  
Total RenderNode : 0.00 kB (used) / 0.00 kB (capacity)

In the link below you can try to run the command and see the issue:

Sample project to trigger the issue: <https://github.com/leinardi/Forlago/tree/baseline-profiles>

Message last modified on Aug 29, 2022 04:44PM

**ja...@veeva.com** <ja...@veeva.com> [#6](#)

Hey, is there any update about this issue?

**le...@gmail.com** <le...@gmail.com> [#7](#)

I'm also waiting for a fix for this issue.

**ko...@gmail.com** <ko...@gmail.com> [#8](#)

I have the exact same issue.

**ro...@veeva.com** <ro...@veeva.com> [#9](#)

Don't hold your breath while waiting for a fix...

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

I tried running the sample code and the problem doesn't seem to be within the library, but within the app itself.

It crashes upon startup with the exception:

```
FATAL EXCEPTION: main
Process: com.leinardi.forlago, PID: 4684
java.lang.IllegalStateException: Default FirebaseApp is not initialized in this process com.leinardi.forlago. Make sure to call FirebaseApp.initializeApp()
at com.google.firebase.FirebaseApp.getInstance(FirebaseApp.java:47)
at com.leinardi.forlago.library.logging.CrashlyticsTree.log(CrashlyticsTree.kt:15)
at timber.log.Timber$Tree.prepareLog(Timber.kt:97)
at timber.log.Timber$Tree.e(Timber.kt:3)
at timber.log.Timber$Forest.e(Timber.kt:6)
at com.leinardi.forlago.library.android.interactor.android.GetAppUpdateInfoInteractor$invoke$2.invokeSuspend(GetAppUpdateInfoInteractor.kt:181)
at kotlin.coroutines.jvm.internal.BaseContinuationImpl.resumeWith(ContinuationImpl.kt:9)
at kotlinx.coroutines.DispatchedTask.run(DispatchedTask.kt:99)
at kotlinx.coroutines.internal.LimitedDispatcher.run(LimitedDispatcher.kt:12)
at kotlinx.coroutines.scheduling.TaskImpl.run(Tasks.kt:3)
at kotlinx.coroutines.scheduling.CoroutineScheduler$Worker.run(CoroutineScheduler.kt:82)
Suppressed: kotlinx.coroutines.DiagnosticCoroutineContextException: [StandaloneCoroutine{Cancelling}@c988cf0, Dispatchers.Main.immediate]
```

Once I commented out `CrashlyticsTree`, the profile is generated properly.

So make sure you provide proper configuration for the `release` or `benchmark` `buildType`.

Message last modified on Nov 8, 2022 10:56PM

**ja...@veeva.com** <ja...@veeva.com> [#11](#)

Thank you! Yes, I just ran again to generate the Baseline Profile without using `CrashlyticsTree` and it worked fine. Sorry for the waste of time, we didn't realize about the `CrashlyticsTree` ex

**ml...@google.com** <ml...@google.com> [#12](#)

*Status: Won't Fix (Intended Behavior)*

We're glad the problem was solved :)

**zx...@gmail.com** <zx...@gmail.com> [#13](#)

Got the same exception:

`java.lang.IllegalStateException: Unable to confirm activity launch completion []` Please report a bug with the output of ``adb shell dumpsys gfxinfo xxx.xxx framestats``

The output of running:

```
adb shell dumpsys gfxinfo xxx.xxx framestats
```

```
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
```

```
Applications Graphics Acceleration Info:  
Uptime: 58875860 Realtime: 155716577
```

```
** Graphics info for pid 29158 [xxx.xxx] **  
Profile data in ms:
```

```
xxx.xxx/xxx.xxx.module.launcher.WelcomeActivity/android.view.ViewRootImpl@701de9e (visibility=0)  
xxx.xxx/xxx.xxx.module.launcher.WelcomeActivity/android.view.ViewRootImpl@9d41d7f (visibility=0)  
View hierarchy:
```

```
xxx.xxx/xxx.xxx.module.launcher.WelcomeActivity/android.view.ViewRootImpl@701de9e  
12 views, 14.72 kB of render nodes
```

```
xxx.xxx/xxx.xxx.module.launcher.WelcomeActivity/android.view.ViewRootImpl@9d41d7f  
25 views, 30.66 kB of render nodes
```

```
Total ViewRootImpl : 2  
Total attached Views : 37  
Total RenderNode : 45.38 kB (used) / 45.38 kB (capacity)
```

```
↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑
```



**ml...@google.com** <ml...@google.com> [#14](#)

Could you, please, verify that your app is not crashing just after the launch?



**zx...@gmail.com** <zx...@gmail.com> [#15](#)

Yes, i'm sure, without any crash stack.

BY THE WAY, There is a business logic of my app: after the launch, a dialog window was displayed above the WelcomeActivity. As you can see, the output of the framestats, the View hierarch when i commented out the dialog logic, it worked fine.

```
envs:  
[google pixel 3 / Android 12]  
[Android Studio Flamingo | 2022.2.1 Patch 2]  
[jdk 17]  
[gradle 8.1]  
[macOS 13.4.1 (c) (22F770820d)]
```

Looking forward to your reply!

Thx~

Message last modified on Jul 31, 2023 12:45PM



**ml...@google.com** <ml...@google.com> [#16](#)

Could you [↪ file a bug](#) with the details to the Macrobenchmark library component as this might be a different problem. Thank you!