← C ☆ Mobile App crashes after enabling R8 in release build   +1 ² | Hotlists (2) | Mark as Duplicate 🔔 ⋮

| Comments (6) | Dependencies | Duplicates (0) | Blocking (0) | Resources (3) |

[WAI] Bug P2 | + Add Hotlist

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

📄 **DESCRIPTION** sg...@google.com created issue #1

This issue has been derived from StackOverflow question 🔗Mobile App crashes after enabling R8 in release build.

I am new to android development. I developed an android application which was working perfectly fine before enabling R8. After obfuscating the application, I am getting the following error. I hav

Following is the Logcat console:

```
2020-01-28 16:16:09.404 5206-5206/? A/DEBUG: *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: Build fingerprint: 'samsung/j6ltecis/j6lte:9/PPR1.180610.011/J600FXXU5BSH5:user/release-keys'
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: Revision: '2'
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: ABI: 'arm'
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: pid: 5073, tid: 5073, name: e.peopleconnect  >>> pk.com.ke.peopleconnect <<<
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: signal 6 (SIGABRT), code -6 (SI_TKILL), fault addr --------
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG: Abort message: 'interpreter_common.h:269] Check failed: receiver->GetClass()->ShouldHaveEmbeddedVTable() '
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG:     r0 00000000  r1 000013d1  r2 00000006  r3 00000008
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG:     r4 000013d1  r5 000013d1  r6 fff98dac  r7 0000010c
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG:     r8 0000000b  r9 efecd000  r10 d4dfe09c  r11 fff98ed0
2020-01-28 16:16:09.405 5206-5206/? A/DEBUG:     ip 00000041  sp fff98d98  lr f3233115  pc f3229fce
2020-01-28 16:16:09.441 3242-3316/? D/SensorService: [SO] -1.307 4.961 9.835
2020-01-28 16:16:09.441 3242-3316/? D/SensorService: [SO] [0 -> 255]
2020-01-28 16:16:09.469 2818-26162/? V/APM_AudioPolicyManager: getAudioPolicyConfig: audioParam;outDevice
2020-01-28 16:16:09.470 2818-26162/? V/APM_AudioPolicyManager: getNewOutputDevice() selected device 0
2020-01-28 16:16:09.470 2818-26162/? V/APM_AudioPolicyManager: ### curdevice : 2
2020-01-28 16:16:09.592 3242-3384/? D/WifiTrafficPoller: TrafficStats TxPkts=394436 RxPkts=647369 TxBytes=46490190 RxBytes=822657331 , Foreground uid=10240 p
2020-01-28 16:16:09.604 5206-5206/? A/DEBUG: backtrace:
2020-01-28 16:16:09.604 5206-5206/? A/DEBUG:     #00 pc 0001cfce  /system/lib/libc.so (abort+58)
2020-01-28 16:16:09.604 5206-5206/? A/DEBUG:     #01 pc 0035e2ff  /system/lib/libart.so (art::Runtime::Abort(char const*)+1034)
2020-01-28 16:16:09.604 5206-5206/? A/DEBUG:     #02 pc 000071c3  /system/lib/libbase.so (android::base::LogMessage::~LogMessage()+506)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #03 pc 003f68fd  /system/lib/libart.so (MterpInvokeVirtualQuick+548)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #04 pc 00417814  /system/lib/libart.so (ExecuteMterpImpl+29972)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #05 pc 001f309c  /data/app/pk.com.ke.peopleconnect-3XBY7V7mKYeci83RcRrdaA==/oat/arm/base.vdex (pk.com.ke.peo
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #06 pc 001cc457  /system/lib/libart.so (_ZN3art11interpreterL7ExecuteEPNS_6ThreadERKNS_20CodeItemDataAccesso
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #07 pc 001d0d8f  /system/lib/libart.so (art::interpreter::ArtInterpreterToInterpreterBridge(art::Thread*, ar
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #08 pc 001e7b3f  /system/lib/libart.so (bool art::interpreter::DoCall<false, false>(art::ArtMethod*, art::Th
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #09 pc 003f688b  /system/lib/libart.so (MterpInvokeVirtualQuick+434)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #10 pc 00417814  /system/lib/libart.so (ExecuteMterpImpl+29972)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #11 pc 001f3010  /data/app/pk.com.ke.peopleconnect-3XBY7V7mKYeci83RcRrdaA==/oat/arm/base.vdex (pk.com.ke.peo
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #12 pc 001cc457  /system/lib/libart.so (_ZN3art11interpreterL7ExecuteEPNS_6ThreadERKNS_20CodeItemDataAccesso
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #13 pc 001d0d8f  /system/lib/libart.so (art::interpreter::ArtInterpreterToInterpreterBridge(art::Thread*, ar
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #14 pc 001e7b3f  /system/lib/libart.so (bool art::interpreter::DoCall<false, false>(art::ArtMethod*, art::Th
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #15 pc 003f5001  /system/lib/libart.so (MterpInvokeInterface+1024)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #16 pc 00413c94  /system/lib/libart.so (ExecuteMterpImpl+14740)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #17 pc 001fcdd8  /data/app/pk.com.ke.peopleconnect-3XBY7V7mKYeci83RcRrdaA==/oat/arm/base.vdex (retrofit.Call
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #18 pc 001cc457  /system/lib/libart.so (_ZN3art11interpreterL7ExecuteEPNS_6ThreadERKNS_20CodeItemDataAccesso
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #19 pc 001d0cdb  /system/lib/libart.so (art::interpreter::EnterInterpreterFromEntryPoint(art::Thread*, art::
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #20 pc 003e7ccb  /system/lib/libart.so (artQuickToInterpreterBridge+882)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #21 pc 004252ff  /system/lib/libart.so (art_quick_to_interpreter_bridge+30)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #22 pc 00987251  /system/framework/arm/boot-framework.oat (offset 0x3fd000) (android.os.Handler.dispatchMess
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #23 pc 009899a3  /system/framework/arm/boot-framework.oat (offset 0x3fd000) (android.os.Looper.loop+1162)
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #24 pc 00e30bb  /system/framework/arm/boot-framework.oat (offset 0x3fd000) (android.app.ActivityThread.main
2020-01-28 16:16:09.605 5206-5206/? A/DEBUG:     #25 pc 00420d75  /system/lib/libart.so (art_quick_invoke_stub_internal+68)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #26 pc 003f988b  /system/lib/libart.so (art_quick_invoke_static_stub+222)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #27 pc 000a181f  /system/lib/libart.so (art::ArtMethod::Invoke(art::Thread*, unsigned int*, unsigned int, ar
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #28 pc 00358161  /system/lib/libart.so (art::(anonymous namespace)::InvokeWithArgArray(art::ScopedObjectAcce
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #29 pc 003595b3  /system/lib/libart.so (art::InvokeMethod(art::ScopedObjectAccessAlreadyRunnable const&, _jo
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #30 pc 003080f5  /system/lib/libart.so (art::Method_invoke(_JNIEnv*, _jobject*, _jobjFollowing are default s
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #31 pc 0011328f  /system/framework/arm/boot.oat (offset 0x10d000) (java.lang.Class.getDeclaredMethodInternal
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #32 pc 00bdcc4b  /system/framework/arm/boot-framework.oat (offset 0x3fd000) (com.android.internal.os.Runtime
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #33 pc 00be2445  /system/framework/arm/boot-framework.oat (offset 0x3fd000) (com.android.internal.os.ZygoteI
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #34 pc 00420d75  /system/lib/libart.so (art_quick_invoke_stub_internal+68)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #35 pc 003f988b  /system/lib/libart.so (art_quick_invoke_static_stub+222)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #36 pc 000a181f  /system/lib/libart.so (art::ArtMethod::Invoke(art::Thread*, unsigned int*, unsigned int, ar
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #37 pc 00358161  /system/lib/libart.so (art::(anonymous namespace)::InvokeWithArgArray(art::ScopedObjectAcce
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #38 pc 00357f75  /system/lib/libart.so (art::InvokeWithVarArgs(art::ScopedObjectAccessAlreadyRunnable const&
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #39 pc 00299321  /system/lib/libart.so (art::JNI::CallStaticVoidMethodV(_JNIEnv*, _jclass*, _jmethodID*, std
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:     #40 pc 000712ff  /system/lib/libandroid_runtime.so (_JNIEnv::CallStaticVoidMethod(_JNIEnv*, _jmethodID*, ...
```

```
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:      #41 pc 000737ab  /system/lib/libandroid_runtime.so (android::AndroidRuntime::start(char const*, android::Vec
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:      #42 pc 00002f15  /system/bin/app_process32 (main+728)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG: Following are default settings and dependencies used.   #43 pc 0008de5d  /system/lib/libc.so (__libc_init+48)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:      #44 pc 00002bfd  /system/bin/app_process32 (_start_main+40)
2020-01-28 16:16:09.606 5206-5206/? A/DEBUG:      #45 pc 00000306  <anonymous:f45d9000>
```

Following are default settings and dependencies used.

```
buildTypes {
    release {
        minifyEnabled true
        debuggable false
        proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        signingConfig signingConfigs.config
    }
}

dependencies {

}
```

✓ Mentioned issues (1)

-- -- "Similar top of stack in b/146905476 ."

COMMENTS

sg...@google.com <sg...@google.com> #2

Question for the original reporter:

1. As far as I can see this happens on a Samsung Galaxy J6 phone. Does it happen on other phones or emulator?
2. Would it be possible for you to share the `.apk` which has this issues, so we can look at it? You can share it privately with sgjesse@google.com or christofferqa@google.com.

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

Similar top of stack in b/146905476.

za...@gmail.com <za...@gmail.com> #4

Yes, I have tried on other phones as well. Plus, I have emailed the application. It crashes on login. I've also emailed you test credentials. Kindly check.

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

Thanks for providing the APK.

I have tried it on a recent Android Build (from master), and there is does not give a native crash, but this Java crash:

```
01-30 12:10:03.584 10812 10812 E AndroidRuntime: java.lang.AbstractMethodError: abstract method "java.lang.String pk.com.ke.peopleconnect.c.v$a.f()"
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at pk.com.ke.peopleconnect.activities.K.a(SourceFile:497)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at pk.com.ke.peopleconnect.activities.K.success(SourceFile:486)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at retrofit.CallbackRunnable$1.run(SourceFile:45)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at android.os.Handler.handleCallback(Handler.java:883)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at android.os.Handler.dispatchMessage(Handler.java:100)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at android.os.Looper.loop(Looper.java:214)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at android.app.ActivityThread.main(ActivityThread.java:7356)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at java.lang.reflect.Method.invoke(Native Method)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:492)
01-30 12:10:03.584 10812 10812 E AndroidRuntime:      at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:930)
```

I looked a bit further into the APK, and the class `pk.com.ke.peopleconnect.c.v$a` is abstract:

```
.class public abstract Lpk/com/ke/peopleconnect/c/v$a;
.super Ljava/lang/Object;
.source "SourceFile"


# annotations
.annotation system Ldalvik/annotation/EnclosingClass;
    value = Lpk/com/ke/peopleconnect/c/v;
.end annotation

.annotation system Ldalvik/annotation/InnerClass;
    accessFlags = 0x1
```

```
        name = "Data"
    .end annotation


    # virtual methods
    .method public abstract a()Ljava/lang/String;
    .end method

    .method public abstract b()Ljava/lang/String;
    .end method

    .method public abstract c()Ljava/lang/String;
    .end method

    .method public abstract d()Ljava/lang/String;
    .end method

    .method public abstract e()Ljava/lang/String;
    .end method

    .method public abstract f()Ljava/lang/String;
    .end method

    .method public abstract g()Ljava/lang/String;
    .end method
```

Also, I did not find any subclasses of `pk.com.ke.peopleconnect.c.v$a` in the APK. Looking a bit on the class `pk.com.ke.peopleconnect.c.v$a` and its outer class `pk.com.ke.peopleco` reflection. If that is the case make sure to have sufficient keep rules for these classes/methods/fields.

You can start by looking in the mapping file `app/build/outputs/mapping/release/mapping.txt` to figure out which original class name `pk.com.ke.peopleconnect.c.v` by looking for th

```
<original class name -> pk.com.ke.peopleconnect.c.v:
```

As a side note I also tries you app on an x86 emulator running Android P, and there I also got a native crash. It was not the same as you got on the Samsung phone, it said *Abort message: 'jav* the emulator is running a userdebug build it might also have additional asserts active in the code. But it again indicate that additional keep rules are required around the class `pk.com.ke.pe`

Hope this can help you resolve the problem.