<u>Android Public Tracker</u> 36993980 ▼

When using Android Studio debugger on a background thread, my Android ← C ☆ app crashes when stepping through a method that contains references to DisplayMetrics, even thought the DisplayMetrics code is never hit

+1 2 Hotlists (1) Mark as Duplicate

mments (10)	Dependencies	Duplicates (0)	Blocking (0)	Resources (4)
easible Bug	P1 + Add Hotlis	st		
STATUS UPDA	ATE No update yet.	Edit		
DESCRIPTION	mm@twobitlabs.co	m created issue <u>#1</u>		Apr 17, 2014 06:02AM
Version of Ar	ndroid Studio (available	e in the about box): 0.5	5.3, Build #AI-135.10	092050
OS version: V	Vindows 8.1 Pro			
	K version: 1.7.0_51-b1:	3 amd64		
I have a meth	nod, isTablet():			
if (!islnit try { // C Disp floa floa dou // Ti isTa } catcl Log isTa } finall	itialized = true;	idthPixels / dm.xdpi; eightPixels / dm.ydpi; qrt(Math.pow(screenW ave a screen size of at 0;	fidth, 2) + Math.pow least 10 inches	
first line of the and the progress statement at	ne method. If I hit that ram proceeds merrily a	breakpoint, then hit F9 along. However, if I ins hod (since isInitialied	(resume program) stead hit F8 (step ov	thread. I have a breakpoint on the , the value of isTablet is returned ver), to advance to the return t is being debugged immediately
	35.926 7637-7645/cd (code=1), thread 7645		emoved.foo A/libc?	Fatal signal 11 (SIGSEGV) at
If I move the	entire try block into a s	separate method, and r	update isTablet() to	call that method, like this
if (isTab	ic boolean isTablet() { let == null) { zeDeviceType();			
return is	Tablet;			
	s no crash. I can step called isTablet(), even			st, and then keep stepping into the
I suspect. in t	the case of the crash. t	hat the debugger is do	oing more than it ne	eds to, and is attempting to load

information related to DisplayMetrics, even though the conditional logic completely sidesteps the code related to DisplayMetrics. And there must be something about accessing DisplayMetrics from a background thread

Reporter mm...@twobitlabs.com Type Bug Priority P1 Severity Status Won't fix (Infeasible) Access Default access View sh...@google.com Assignee Verifier Collaborators : СС mm...@twobitlabs.com vs...@google.com AOSP ID 68642 ReportedBy Developer Found In Targeted To Verified In In Prod

that is problematic.

	m phone while crashing: <u>https://gist.github.com/nmr8acme</u>		nm@ <u>#4</u>			
	://code.google.com/p/android-developer-preview/issues/		nm@ <u>#9</u>			
- <u>https</u>	://code.google.com/p/android-developer-preview/issues/	n	nm@ <u>#9</u>			
ОММЕ	NTS	All comments ▼ ↓	Oldest first			
	vs@google.com <vs@google.com><u>#2</u></vs@google.com>	Apr 17, 2014 08	:01AM <b>:</b>			
	Assigned to vs@google.com.					
	1. Is it possible to provide a reproducible test case? I'll try reproduce it, but it would make it a lot easier if the probler		an			
	2. Could you provide some details on the device? (emulator	or or device? android version?)				
	It seems unlikely that this is because of a background thre some data which seems to crash the JVM (I assume Dalvi one line? The JDWP at the end seems to suggest that it is crashed.	ik). Is there a longer stack trace or is	it just that			
	mm@twobitlabs.com <mm@twobitlabs.com> #3</mm@twobitlabs.com>	Apr 17, 2014 08	:09AM <b>:</b>			
	1. I'll work on providing a complete, reproducible test case when I have some time, and will post that in a comment.					
	2. This happened on GenyMotion (emulating a Samsung Galaxy S3) and an actual device (Samsung Galaxy S3), both running API 18.					
	> It seems unlikely that this is because of a background thread					
	Just to clarify, because I'm not sure what you meant by the above comment the problem only occurs when the isTablet() method is invoked on a background thread. When isTablet() is invoked on the main thread, I can step through just fine.					
	I haven't been able to come up with a stack trace just that one-line fatal log message.					
	Thanks for the quick response!					
	nm@gmail.com <nm@gmail.com><u>#4</u></nm@gmail.com>	Aug 20, 2014 09	:20AM <b>:</b>			
	Here's a tiny repro for a very similar bug					
	https://github.com/nmr8acme/dalvik-debug-bug					
	Maybe it has something to do with multiple return points from the function? Or DM has badly behaved JNI code?					
	Log from phone while crashing: https://gist.github.com/nmr8acme/7d1b482bbd886a294b3d					
	Nexus 5 build KTU84P (4.4.4)					
	Android Studio 0.8.6					
	vs@google.com <vs@google.com>#5</vs@google.com>	Aug 20, 2014 09	:22AM <b>:</b>			
	Thanks for the test case, I'll try it out this week.					
	nm@gmail.com <nm@gmail.com><u>#6</u></nm@gmail.com>	Aug 20, 2014 09	:23AM <b>:</b>			
	Not sure what Android build tools Gradle would build this with, but according to the SDK manager I have a bunch installed.					
	deleted 0 B ②	<u></u>	Restricted			
	nm@gmail.com <nm@gmail.com><u>#7</u></nm@gmail.com>	Aug 20, 2014 09	:30AM <b>:</b>			
	[Comment deleted]					



This makes Android debugging feel like a nice game of Russian roulette.

**sh...@google.com** <sh...@google.com><u>#10</u> Jun 26, 2015 07:45PM

Status: Won't Fix (Infeasible)

We no longer make any change to Dalvik. ART is the default runtime starting from Android 5.0 and does not seem impacted according to comment #7.

If you can reproduce with ART (on a device with Android 5.0+), please file another bug.