

	In the meantime, apps can allocate direct buffers in native code using GDNewDirectByteBuffer, but they take responsibility for the allocating the memory and managing it.
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	@5 Is there a nice way to reach it via Java/Kotlin? Can you please consider adding such a thing, even as a new dependency of android-x? Maybe call it "memory allocation"?
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	Thanks again for the feedback! Our product and engineering teams have evaluated the issue and responded:
	Thanks for the suggestion. In the meantimeAndroid does not offer any utilities here. The core library is based on OpenJDK 8.
	The allocateDirect() allocations are in the non-movable heap.
	If the memory is being allocated for data that is coming from (or going) files, then 🖘 FileChannel.map() will memory map those files without touching the heap.
	Otherwise, the only support option is the JNI method NewDirectByteBuffer() and this can be wrapped appropriately for your own scenarios. It seems unlikely there is one-size suits all solution
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	Thanks again for the feedback! Our product and engineering teams have evaluated the issue and responded:
	Instead of trying to create out-of-heap allocations, consider instead just requesting a larger heap by setting android:largeHeap="true" in your application's manifest. See https://developer.a
	lb@gmail.com <lb@gmail.com><u>#9</u></lb@gmail.com>
	 @8 No, because: 1. Nothing is guaranteed out of it 2. You will almost always just get much less than the real free RAM. 3. It is fixed in size. Meaning that if you got X amount RAM, it will stay this way. No way to get more. You can't even specify how much you need. It's either true or false. 4. It even says you should avoid using it, as it causes performance to degrade due to larger work for GC.
	So, for example, if I want to cache a large file into RAM to perform some operation on it, this is not a good way to do it. I've actually had such a case. Some ZIP content (that you get from Uri as InputStream) are created differently than others, so you can't use ZipInputStream on them (of the framework), but we byte array (The Android frameworks ZipFile accepts only a file path, so it can't always be used). Sadly though, since byte array is in the heap, and the max RAM you can get for the heap is determined by the OS and is fixed, it can't always work If you got 200MB for example (with or without the largeHeap flag), you won't be able to open a 300MB ZIP file using this approach.
	If you want, you can read about this, here's an example of Google's comment on this exact matter: https://issuetracker.google.com/issues/152802775#comment5
	Google explains that we can't use some amount of RAM just like that for heap. I was told that Apache can handle it, but again, it needs a large heap to handle the file content So what I did is to get it via JNI in this case (someone else helped me on this, as I'm very rusty with JNI), which is quite a weird workaround. Another solution I got is that instead of caching anything, I just let it go through the stream and re-create it when needed. It's more memory efficient, but performance-wise it might be quite to the stream and re-create it when needed in the stream and re-create it when needed it when needed in the stream and re-create it when needed in the
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	Thanks for the update. We've shared this with our product and engineering teams and will continue to provide updates as more information becomes available.