

73.0 % Max. App CPU	200.0 % Max. Device CPU	138.8 MB Max. App Memory	1223.2 MB Max. Device Memory	13 Avg. FPS	1 Crashes
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- 🕒

Duration: 2 minutes, 47 seconds
- 📅

Start Date: Nov 23, 2024 00:19:06
- 📅

End Date: Nov 23, 2024 00:21:53
- 📋

Test Session: Apptim - Wikipedia App Performance Tests
- 📱

Device: sdk\_gphone\_x86\_arm 📶 11

## Summary



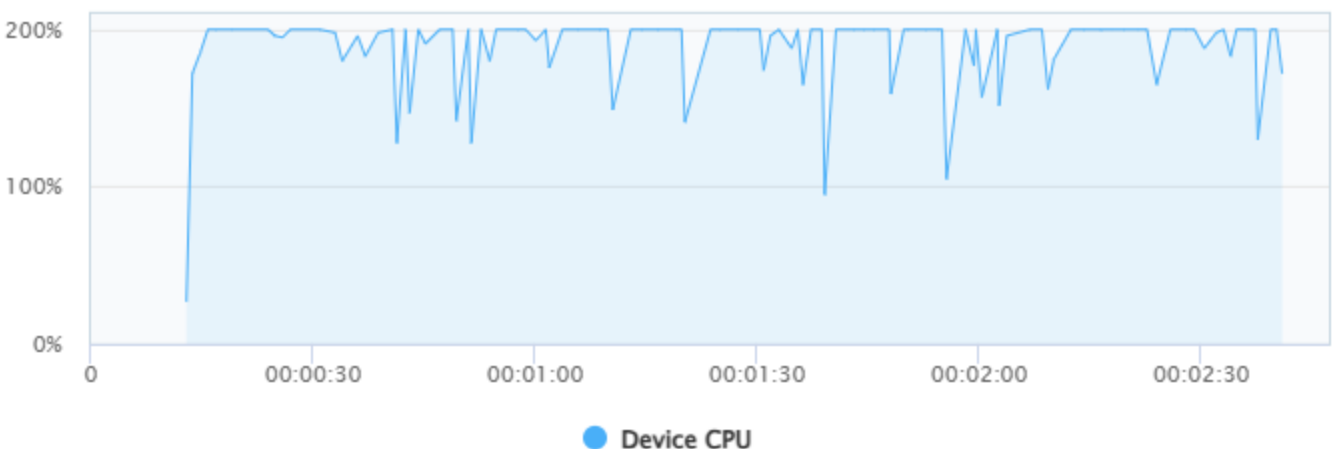
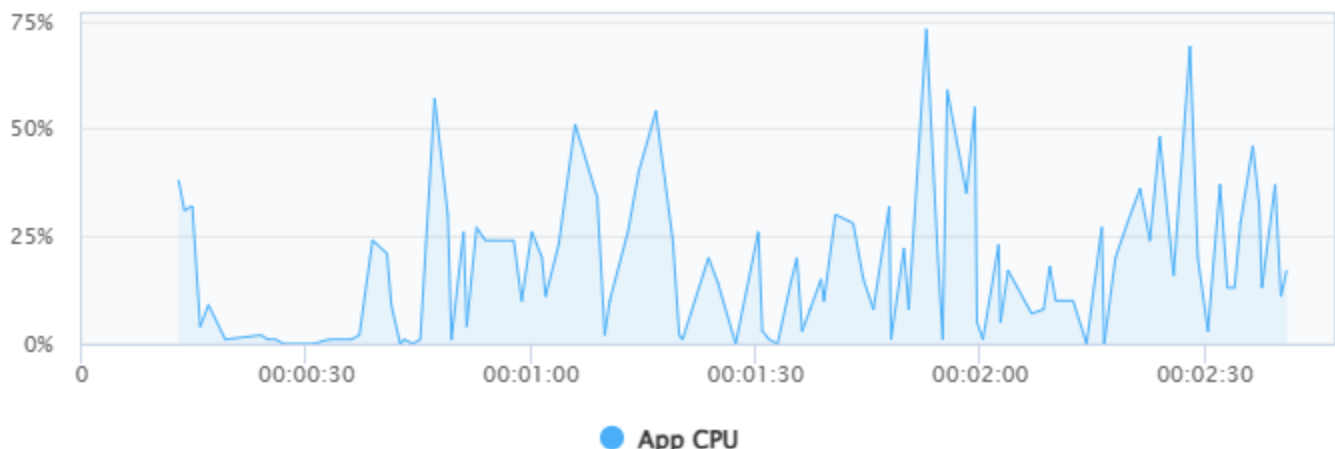
● Pass ● Moderate ● Warning ● Skipped

❗ Max. Animations 477.9 ms (Warning limit exceeded: > 16.67 ms)
❗ Crashes 1 (Warning limit exceeded: >= 1)
❗ Max. Draw Time 640.7 ms (Warning limit exceeded: > 16.67 ms)
❗ Avg. FPS 13 (Warning limit exceeded: < 30)
❗ Max. Input Events 104.1 ms (Warning limit exceeded: > 16.67 ms)
❗ Janks 84.0 (Warning limit exceeded: > 50)
❗ Max. Layout Measure Time 978.5 ms (Warning limit exceeded: > 16.67 ms)
⚠ Avg. Energy Score 486.5 pts (Moderate limit exceeded: > 250 pts)
⚠ Max. SQLite Performed Query 393.0 ms (Moderate limit exceeded: >= 100 ms)
✅ Pass
Avg. App CPU: 18.6 %
Max. App CPU: 73.0 %
Avg. App Memory: 104.9 MB
Max. App Memory: 138.8 MB
App Size: 20.4 MB
Avg. Device CPU: 187.1 %
Max. Device CPU: 200.0 %
Avg. Device Memory: 1150.9 MB
Max. Device Memory: 1223.2 MB
Total Network Download: 0.0 MB
Total Network Upload: 0.0 MB

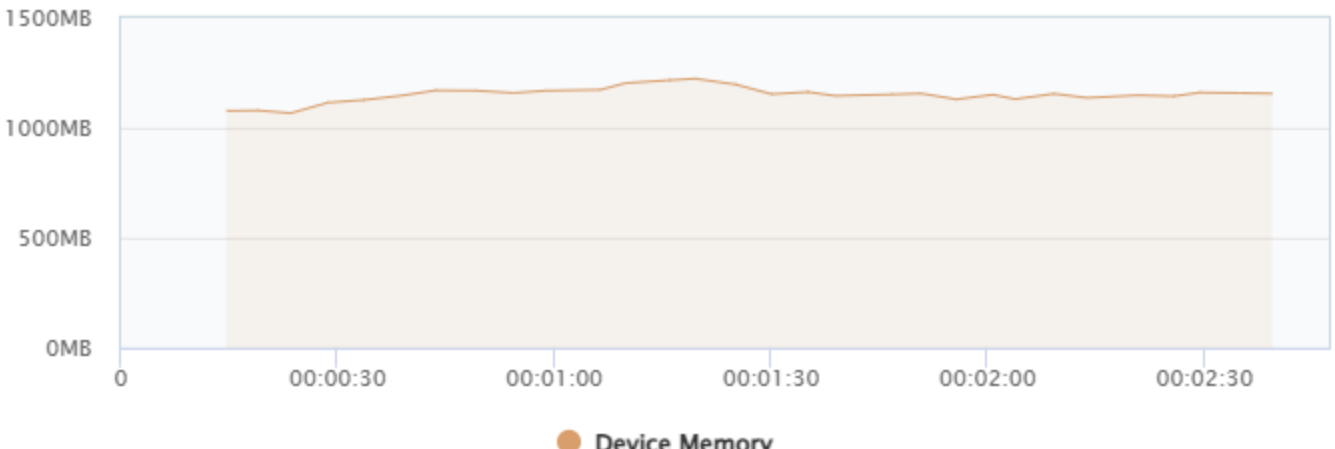
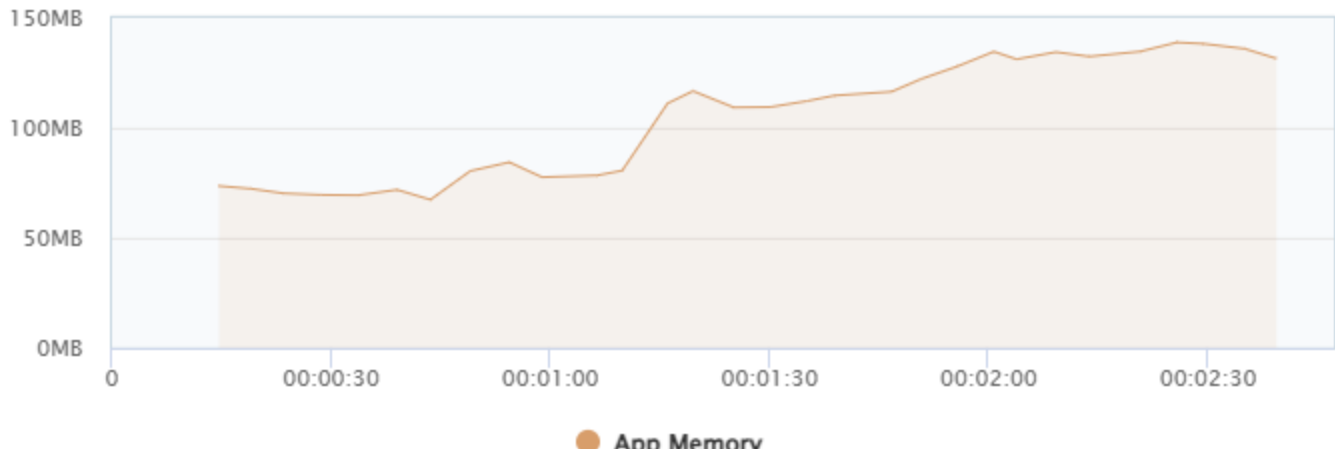
## Metrics

### CPU

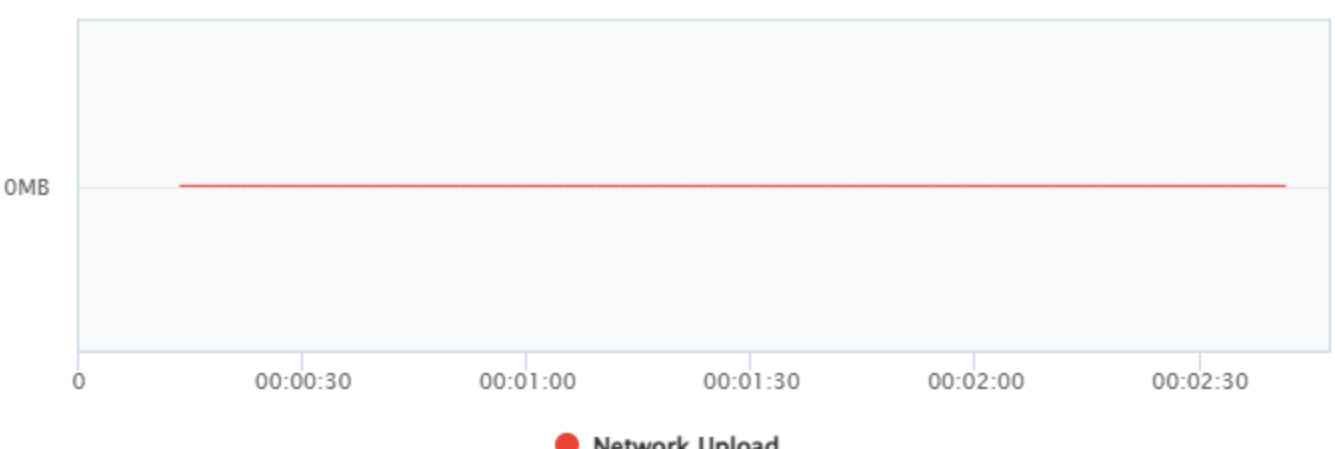
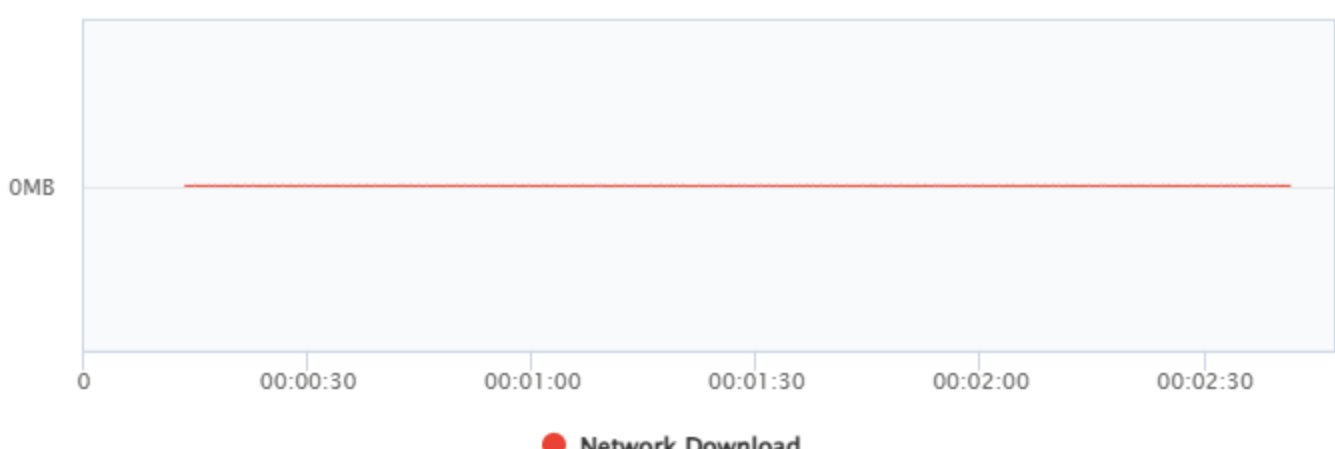
📌 Starting from **Apptim Desktop v1.6.9**, the CPU usage metric values will now take into account multi-core CPUs.  
**Explanation:** Modern CPUs often have multiple cores, which allow them to execute multiple tasks simultaneously. Each core can handle its own workload independently. As of now, when monitoring CPU usage you might encounter CPU percentages that appear to exceed 100%. This indicates that the total CPU utilization across all cores is higher than the capacity of a single core.



### Memory



### Network

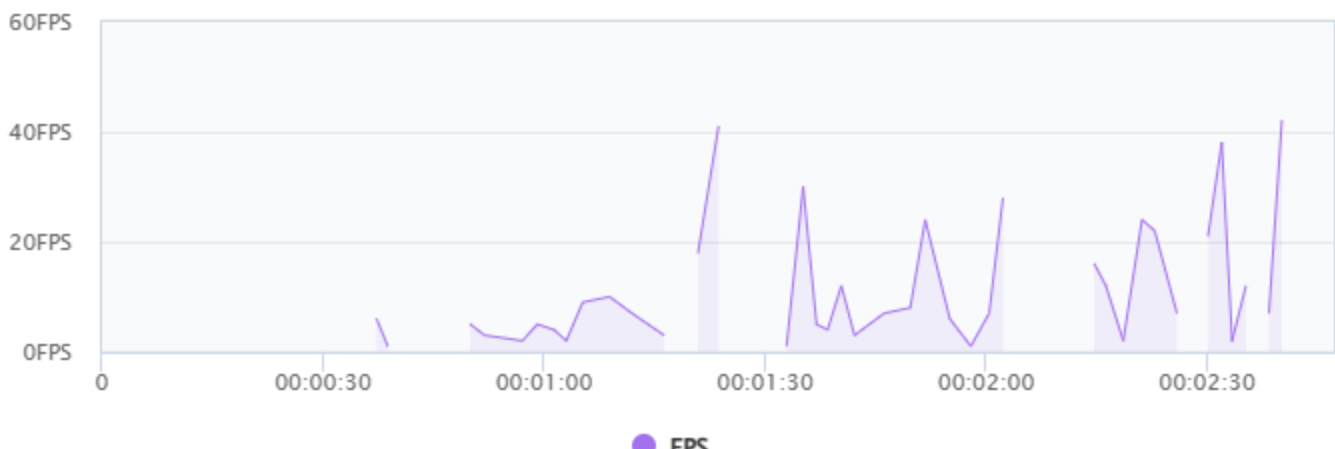


### Render

📌 For more information about how to understand this data, definitions and your goals as an App Developer read [more here](#).

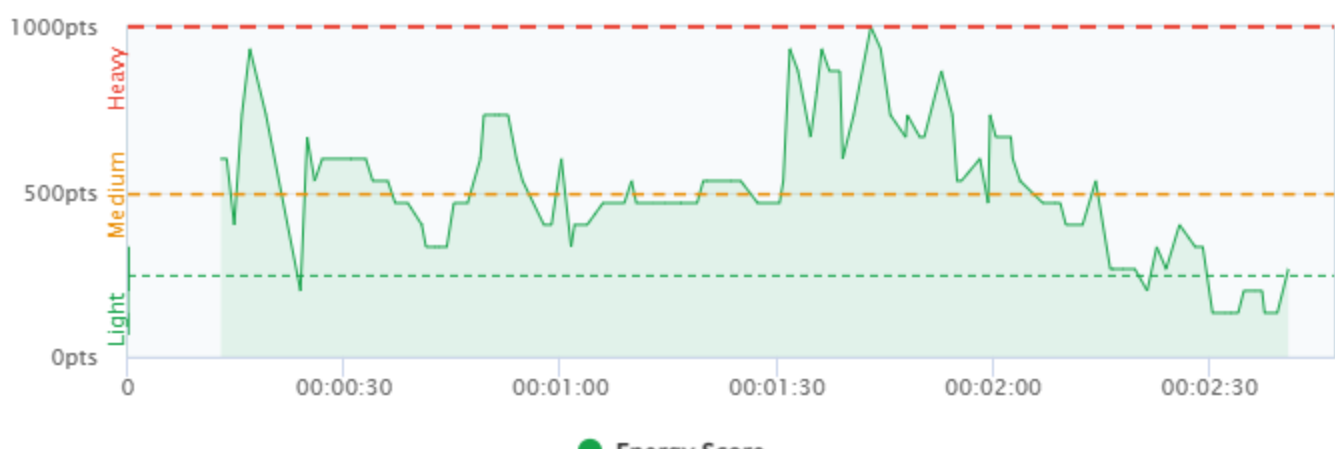
#### ⚠ Insights during the test (not critical)

- Vsync difference: The UI thread was busy, which prevented it from responding to the vsync signal in a timely manner.
- Input Events: The app spends unusual time processing input events, such as View.onTouchEvent(), indicating that this process should be optimized or offloaded to another thread. Note that it is expected and acceptable for this value to be high in some situations, such as when click events start new activities or similar situations.
- Animations took more than 2ms, check if your app wrote any custom animations or what fields ObjectAnimators are animating, and make sure they are suitable for an animation.



### Energy

📌 Apptim profiles the use of the CPU and GPS sensor, and it displays a visualization of how much energy each of these components uses. This Energy Score also shows you occurrences of system events (wake locks, alarms, jobs, and location requests) that can affect energy consumption. Read more about how this works [here](#).



## Errors



An application typically crashes when it performs an operation which is not allowed by the operating system. The operating system then triggers an exception or signal in the application.

### Warning Exception

## Test Environment



### sdk\_gphone\_x86\_arm

Android version:	11
Manufacturer:	Google
Model:	sdk_gphone_x86_arm
CPU:	ranchu
CPU Arch:	x86
CPU Cores:	1
RAM:	2GB

### App Information

Name:	Wikipedia Alpha
Version:	2.5.194-alpha-2017-05-30
Package Name:	org.wikipedia.alpha
Launch Activity:	org.wikipedia.main.MainActivity
Use large heap:	Yes
Debuggable:	Yes

## Screen Information

Screen orientation:	port
Screen resolution:	1440x3040
Layout size:	Normal
Display density:	120dpi (ldpi)
LOpenGL ES:	131072

## Apptim Environment

Host Os:	Windows
Host Arch:	64bit
Host Id:	26d27b6f64e6817d4c7b1241decdc72ac8da3086d3310dd713906467f0c05084
Apptim Agent Version:	0.15.3

## App Compatibility

Min API Level:	16
Target API Level:	25
Native CPU architectures:	No
Screens:	small normal large xlarge

## Permissions

android.permission.INTERNET	Allows the app to create network sockets and use custom network protocols. The browser and other applications provide means to send data to the internet, so this permission is not required to send data to the internet.
android.permission.WRITE_EXTERNAL_STORAGE	Allows the app to write to the SD card.
android.permission.GET_ACCOUNTS	Allows the app to get the list of accounts known by the phone. This may include any accounts created by applications you have installed.
android.permission.AUTHENTICATE_ACCOUNTS	Allows the app to use the account authenticator capabilities of the AccountManager, including creating accounts and getting and setting their passwords.
android.permission.MANAGE_ACCOUNTS	Allows the app to perform operations like adding and removing accounts, and deleting their password.
android.permission.VIBRATE	Allows the app to control the vibrator.
android.permission.RECEIVE_BOOT_COMPLETED	Allows the app to have itself started as soon as the system has finished booting. This can make it take longer to start the phone and allow the app to slow down the overall phone by always running.
android.permission.ACCESS_FINE_LOCATION	Allows the app to get your precise location using the Global Positioning System (GPS) or network location sources such as cell towers and Wi-Fi. These location services must be turned on and available to your device for the app to use them. Apps may use this to determine where you are, and may consume additional battery power.
android.permission.ACCESS_NETWORK_STATE	Allows the app to view information about network connections such as which networks exist and are connected.
android.permission.ACCESS_WIFI_STATE	Allows the app to view information about Wi-Fi networking, such as whether Wi-Fi is enabled and name of connected Wi-Fi devices.
android.permission.READ_EXTERNAL_STORAGE	Allows the app to read the contents of your SD card.