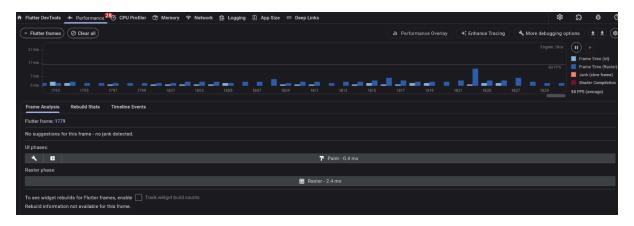
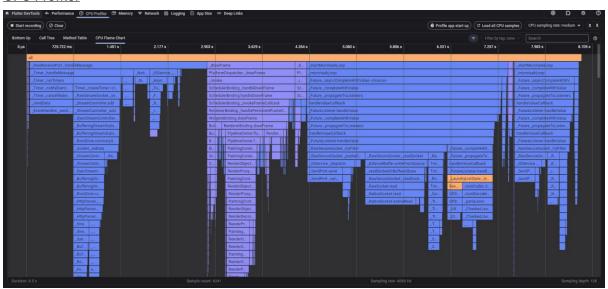
# **Flutter Performance Profiling Tools**

#### **Performance**



The Performance tab in Flutter DevTools visualizes UI and raster thread activity, helping you identify rendering issues like jank or slow frames. It provides detailed frame analysis, rebuild stats, and timeline events to optimize app responsiveness and frame rendering.

#### **CPU Profiler**



The CPU tab in Flutter DevTools shows detailed CPU profiling data, which helps you to identify expensive operations in your code. It displays function call stacks over time, allowing you to optimize specific methods or isolate slow code paths.

## **Memory Profile**



The Memory tab tracks memory usage, allocation, and garbage collection events in real-time. It helps detect memory leaks, monitor object lifecycles, and ensure efficient memory management in your Flutter app.

### Logging



The Logging tab displays real-time logs from your Flutter application, including debug prints, errors, and other system messages. It helps you track app behaviour, troubleshoot issues, and monitor custom log outputs during development and testing.