

Power usage impact of render pipeline throttling

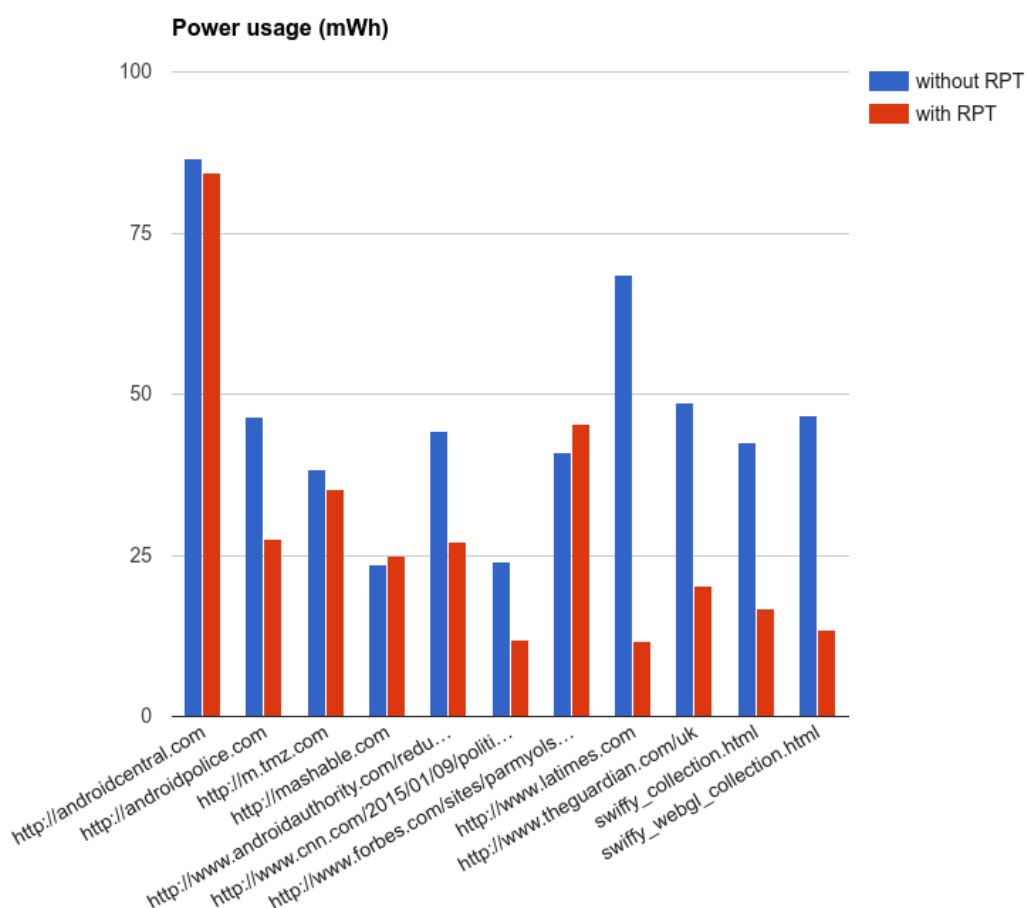
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Tracking bug: [487937](#)

This report summarizes the power usage impact of [stopping running Blink's rendering pipeline](#) for out-of-view frames. The measurement was done on a Nexus 6P, which has an integrated power usage meter.

The test used a [telemetry benchmark](#) which loaded 11 pages in sequence and measured power usage for a duration of 5 minutes for each one (no scrolling was performed). 9 of the pages were snapshots of real web pages with several ads, while the other two were synthetic pages with [Swiffy](#)-based ads.



Overall, in this test throttling reduced power usage by 37%. The page with the highest power usage ([androidcentral.com](#)) has several heavy per-frame timers, which could motivate a subsequent intervention to throttle timers for out-of-view frames.