# Benchmarks

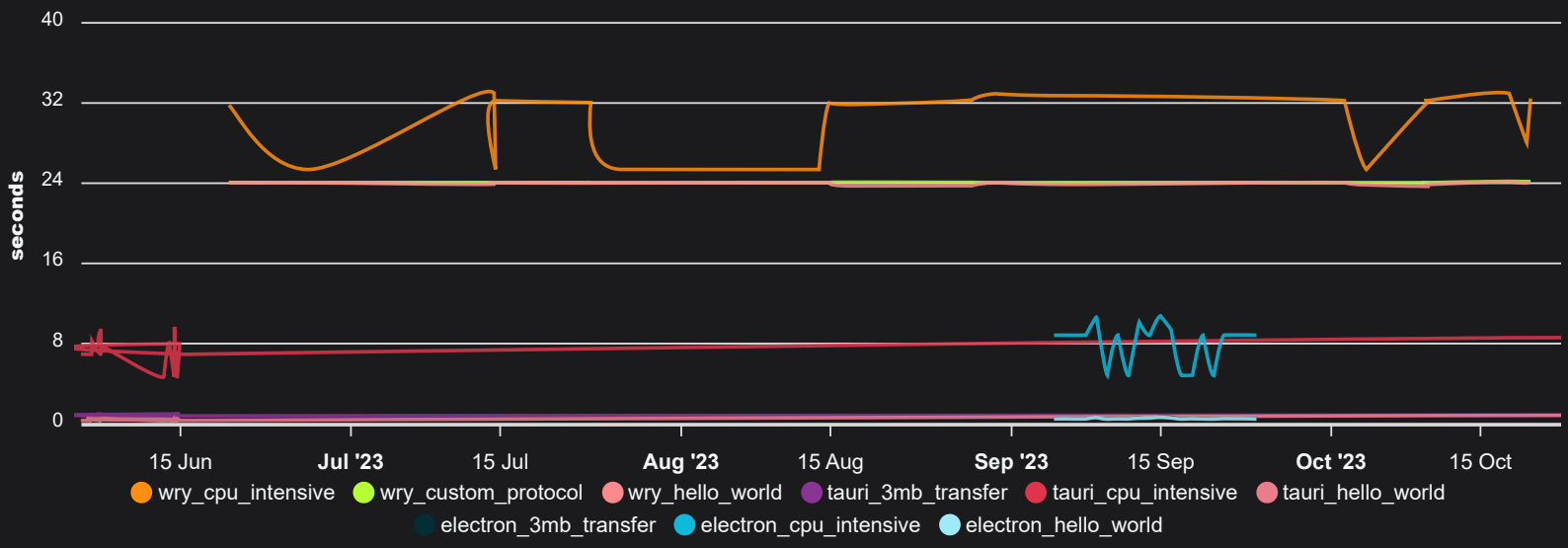
All benchmarks run on GitHub Actions using the `ubuntu-latest` matrix. Various metrics are measured by the following applications:

| Tauri | Wry | Electron |
| --- | --- | --- |
| tauri_cpu_intensive | wry_cpu_intensive | electron_cpu_intensive |
| tauri_hello_world | wry_hello_world | electron_hello_world |
| tauri_3mb_transfer | wry_custom_protocol | electron_3mb_transfer |

> **NOTE**
> The CPU intensive benchmark measures how much time it takes to calculate all the prime numbers under a certain value without blocking the UI and reporting how many have been found so far using web workers.

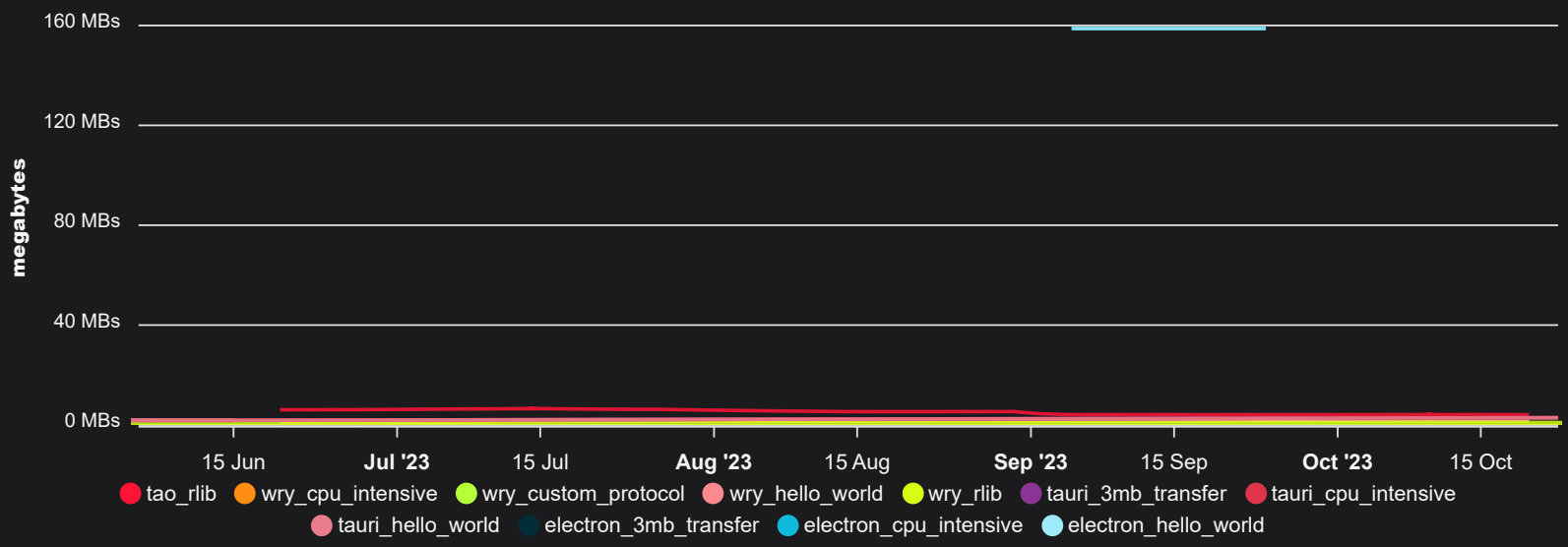
## Execution Time

How much time in total it takes to initialize the application and wait for the `DOMContentLoaded` event. This uses hyperfine under the hood and runs 3 warm-up sequence first, then 10 sequences to calculate the average execution time.



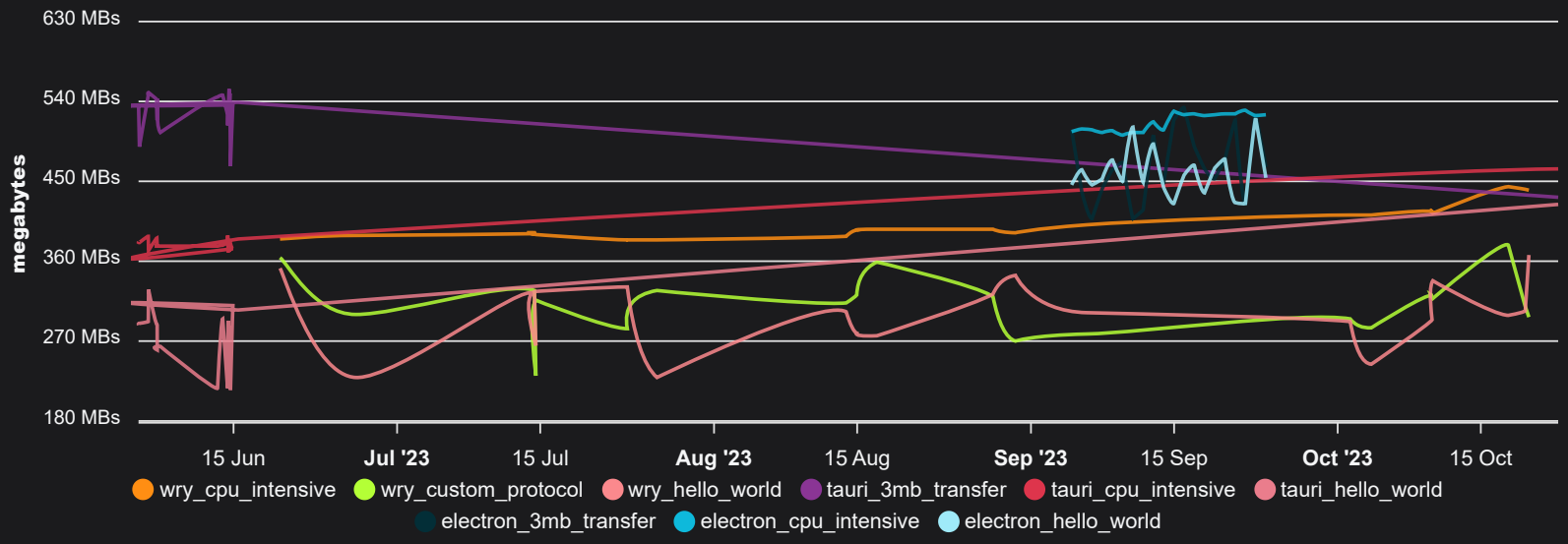
# Binary Size

All binaries are compiled in release mode.



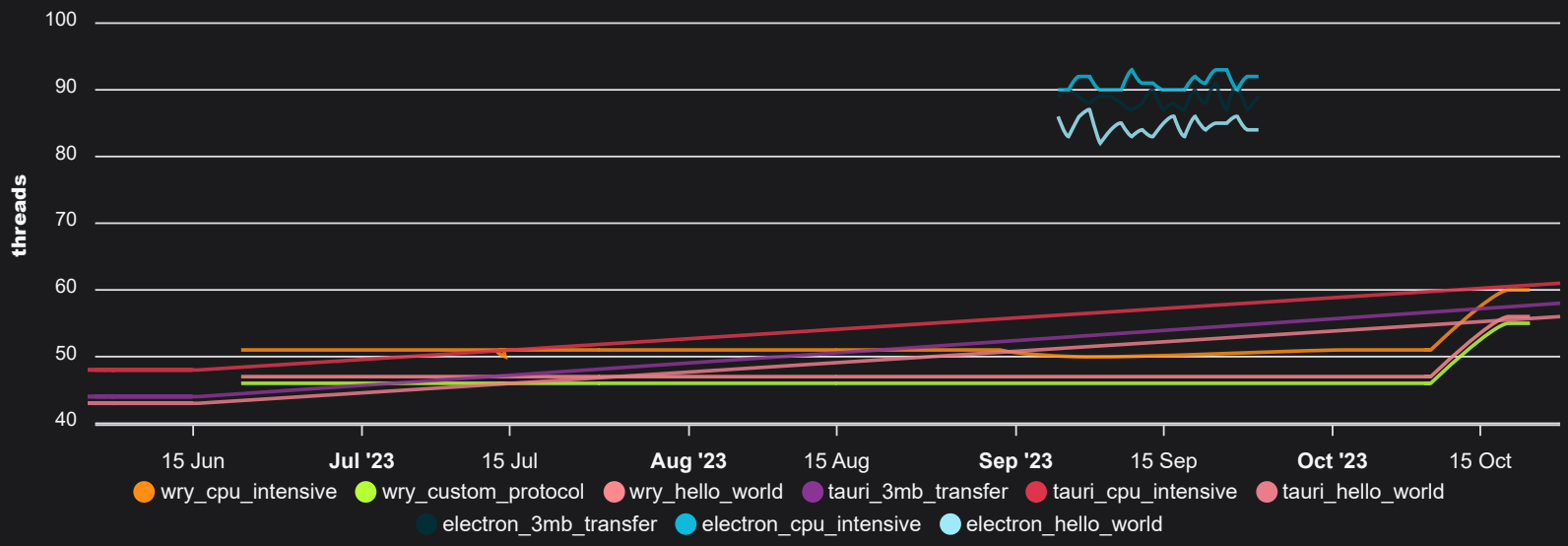

# Memory Usage

Uses mprof to get the max memory usage during execution. Smaller is better.



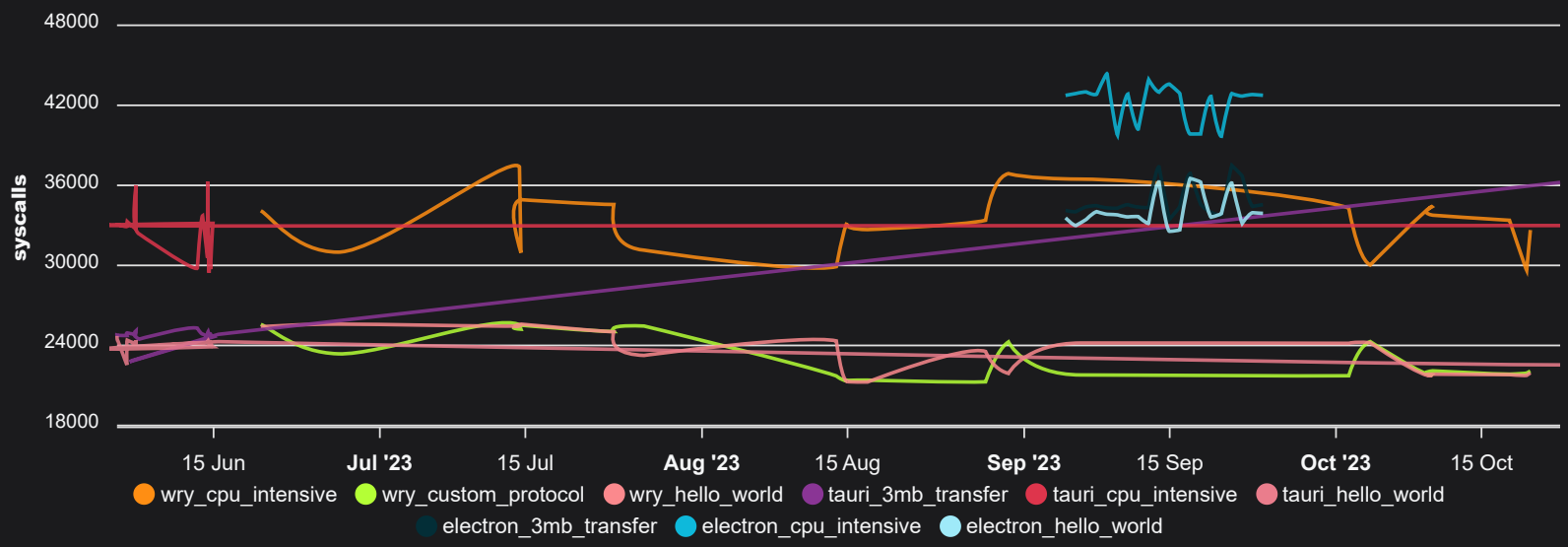

# Thread Count

How many threads the application uses. Smaller is better.

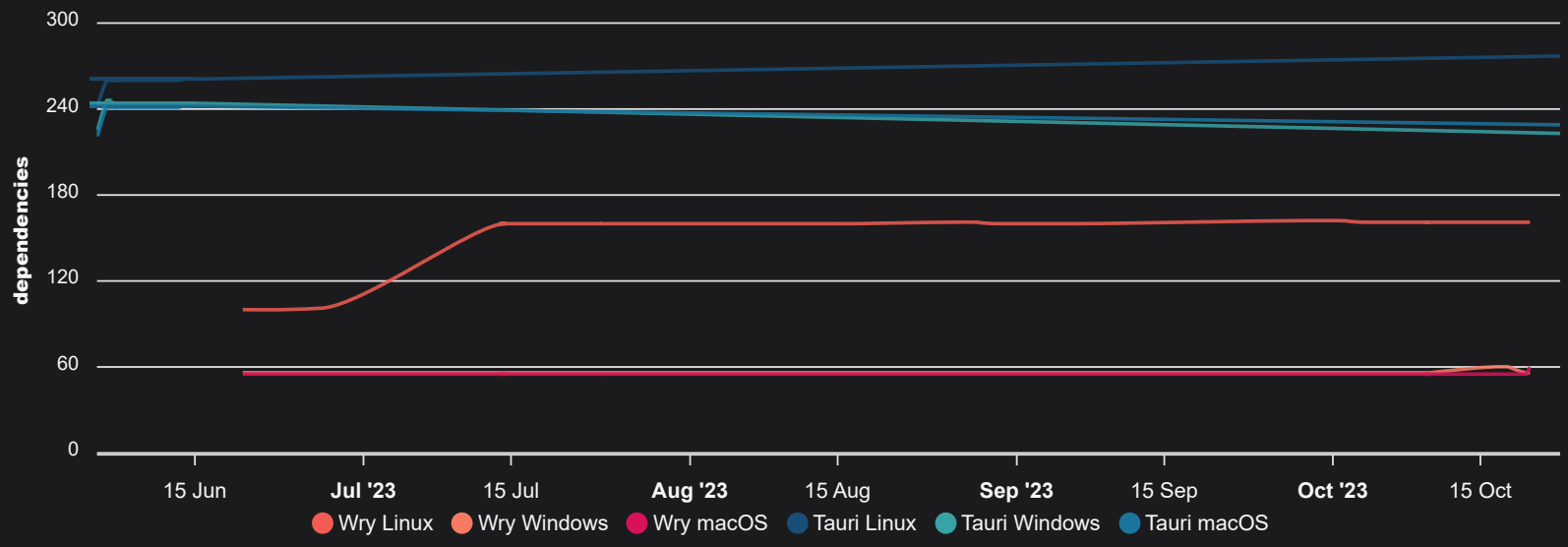



# Syscall Count

How many total syscalls are performed when executing a given application. Smaller is better.




# Dependencies

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