

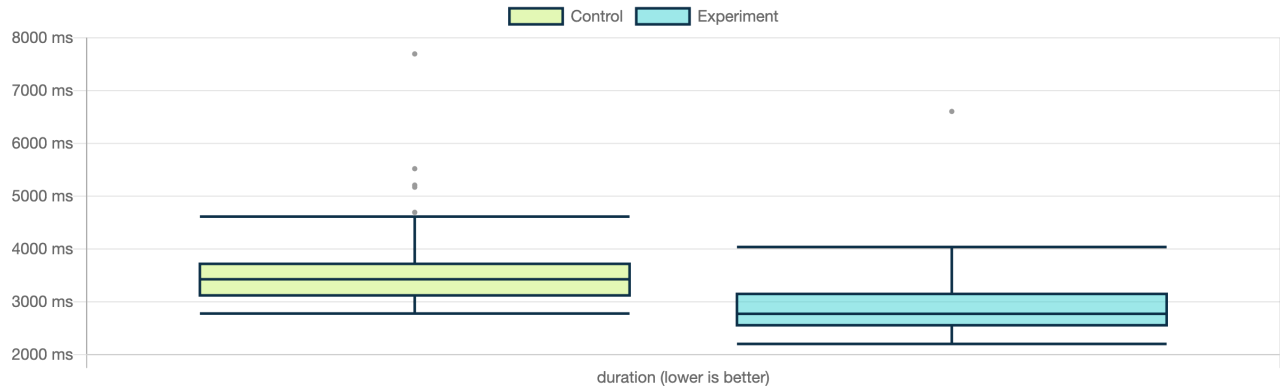
# TracerBench: Boxplot Results

TracerBench on HeadlessChrome/83.0.4103.116



## duration (579 ms faster)

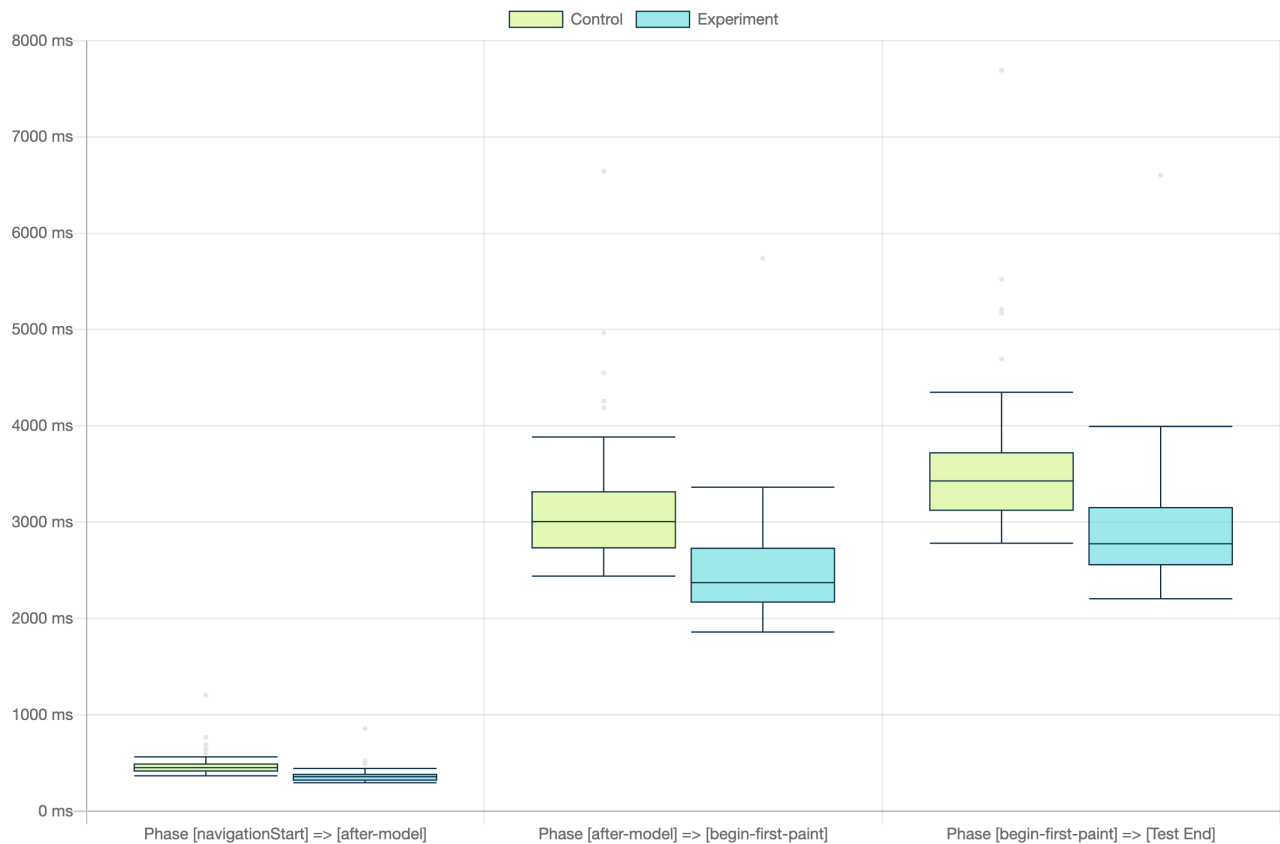
A statistical analysis test was used ([Wilcoxon Rank-Sum Test](#)) to determine that the results are significant meaning they are worth looking at. A statistics estimator ([Hodges-Lehmann estimator](#)) was used to determine "Experiment" is **faster** by **579 ms**. TracerBench is 95% confident it is **faster** between **401 ms to 765 ms** based on 50 samples using a [confidence interval](#).



## Sub Phases of Duration

The chart below shows the finish times (a point in the page load duration) of the sub phases for experiment and control. It gives a high level view on what also changed (if there are any).

You can view more details about the phases starting from page 2.



# Sub Phases in Detail

Sorted by phases that regressed with the most magnitude.

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## Phase [navigationStart] => [after-model] (95 ms faster)

A statistical analysis test was used ([Wilcoxon Rank-Sum Test](#)) to determine that the results are significant meaning they are worth looking at. A statistics estimator ([Hodges-Lehmann estimator](#)) was used to determine "Experiment" is **faster** by **95 ms**. TracerBench is 95% confident it is **faster** between **73 ms to 118 ms** based on 50 samples using a [confidence interval](#).

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## Phase [after-model] => [begin-first-paint] (491 ms faster)

A statistical analysis test was used ([Wilcoxon Rank-Sum Test](#)) to determine that the results are significant meaning they are worth looking at. A statistics estimator ([Hodges-Lehmann estimator](#)) was used to determine "Experiment" is **faster** by **491 ms**. TracerBench is 95% confident it is **faster** between **347 ms to 624 ms** based on 50 samples using a [confidence interval](#).

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## Phase [begin-first-paint] => [Test End] (No Difference)

A statistical analysis test was used ([Wilcoxon Rank-Sum Test](#)) to determine that results are not significant.

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# Resources

- [Stats Primer](#)
- [Understanding Boxplots](#)
- [Wilcoxon Rank-Sum Test](#)

# Configs Used

```
{
  "tbResultsFolder": "/Users/cthoburn/github/oss/version-performance/tracerbench-results",
  "config": "./generated-tracerbench-config.tmp.json",
  "experimentURL": "http://localhost:4201?tracing=true",
  "controlURL": "http://localhost:4200?tracing=true",
  "regressionThreshold": 25,
  "fidelity": "high",
  "markers": [
    {
      "label": "Phase [navigationStart] => [after-model]",
      "start": "navigationStart"
    },
    {
      "label": "Phase [after-model] => [begin-first-paint]",
      "start": "after-render"
    },
    {
      "label": "Phase [begin-first-paint] => [Test End]",
      "start": "begin-first-paint"
    }
  ],
  "debug": true,
  "headless": true,
  "runtimeStats": false,
  "report": true
}
```