

PromQL Aggregation Sharding

High Cardinality Queries FTW
@tom_wilkie, PromCon 2019



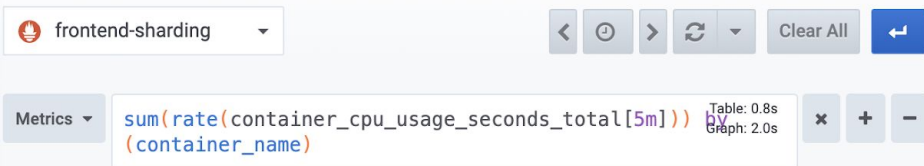
```
sum(rate(foo{bar="baz"}[1m]))
```

```
sum(  
    sum(rate(foo{bar="baz", shard="1"}[1m]))  
    "+"  
    sum(rate(foo{bar="baz", shard="2"}[1m]))  
    ...  
    sum(rate(foo{bar="baz", shard="16"}[1m]))  
)
```

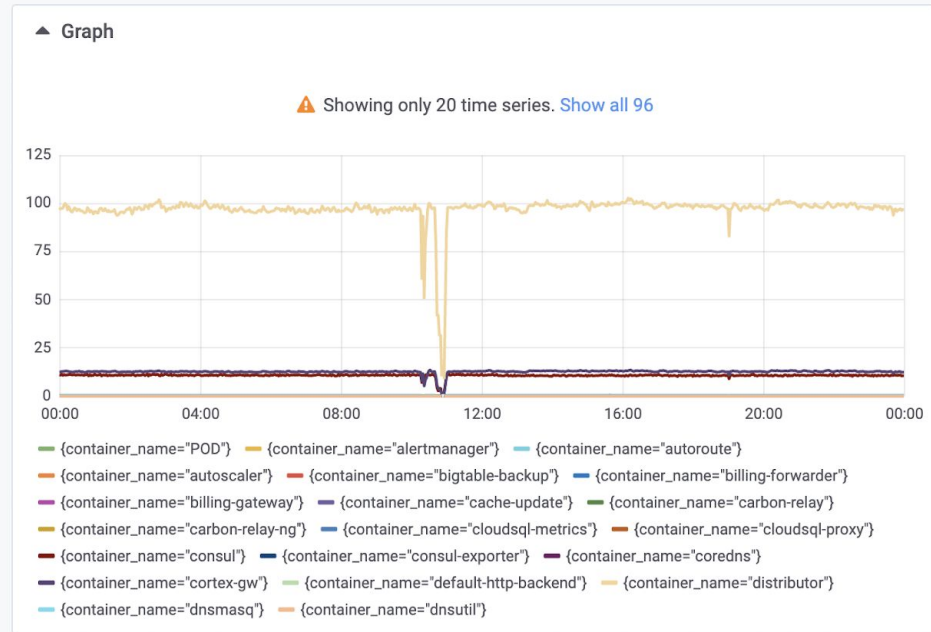
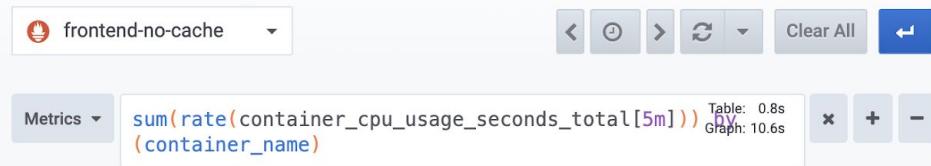
Before: 10.5s

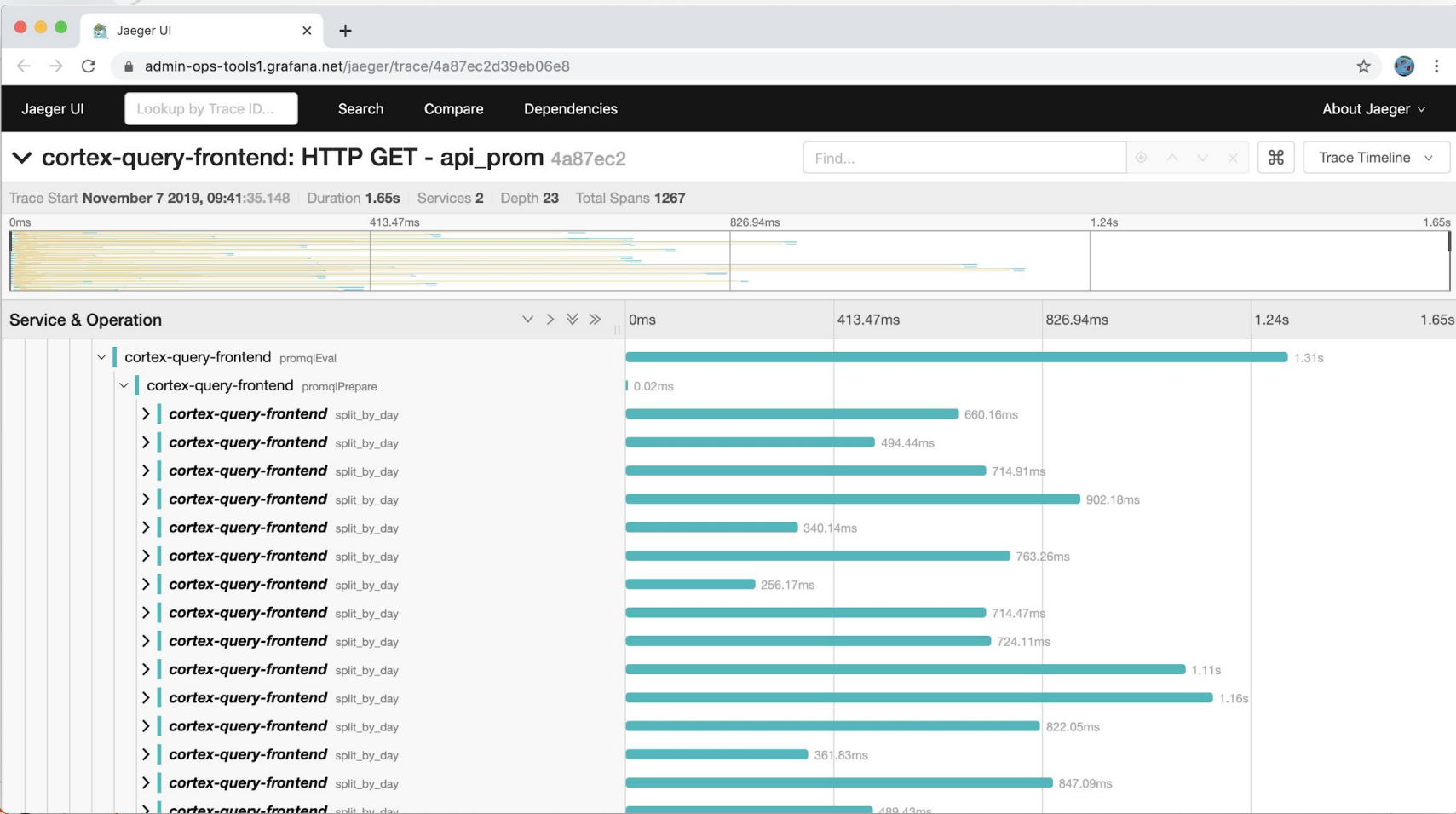


After: 2.0s

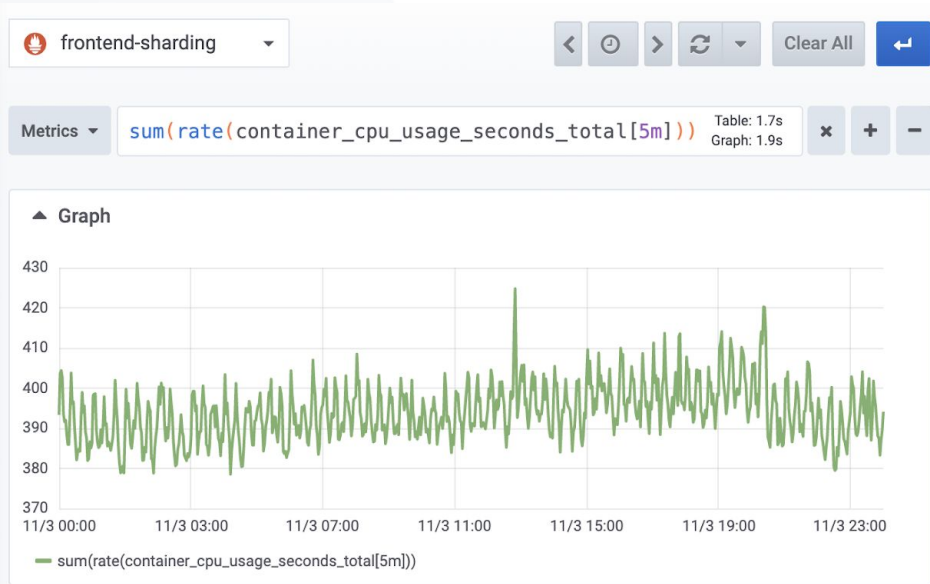


Before: 10.6s

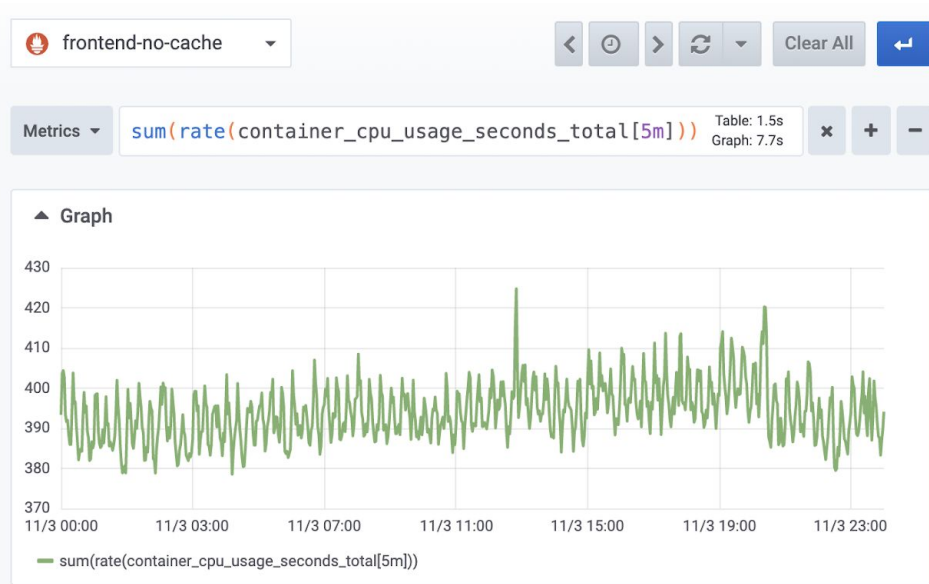




After: 1.9s



Before: 7.7s





Owen Diehl



Cyril Toven



Thanks!

Questions?