

# (Python) webserver benchmarking

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# Purpose

- How fast is my app?



# Benchmarking tool

- WRK

- Written in C
- -t threads
- -c connections
- -d duration
- -s lua scriptable
  - Json output <https://github.com/wg/wrk/pull/361>
  - Multiple paths  
<https://github.com/tivvit/shush-benchmarks/blob/master/speed-tests/wrk/urls.lua>

- Others

- Siege
- Wrk2

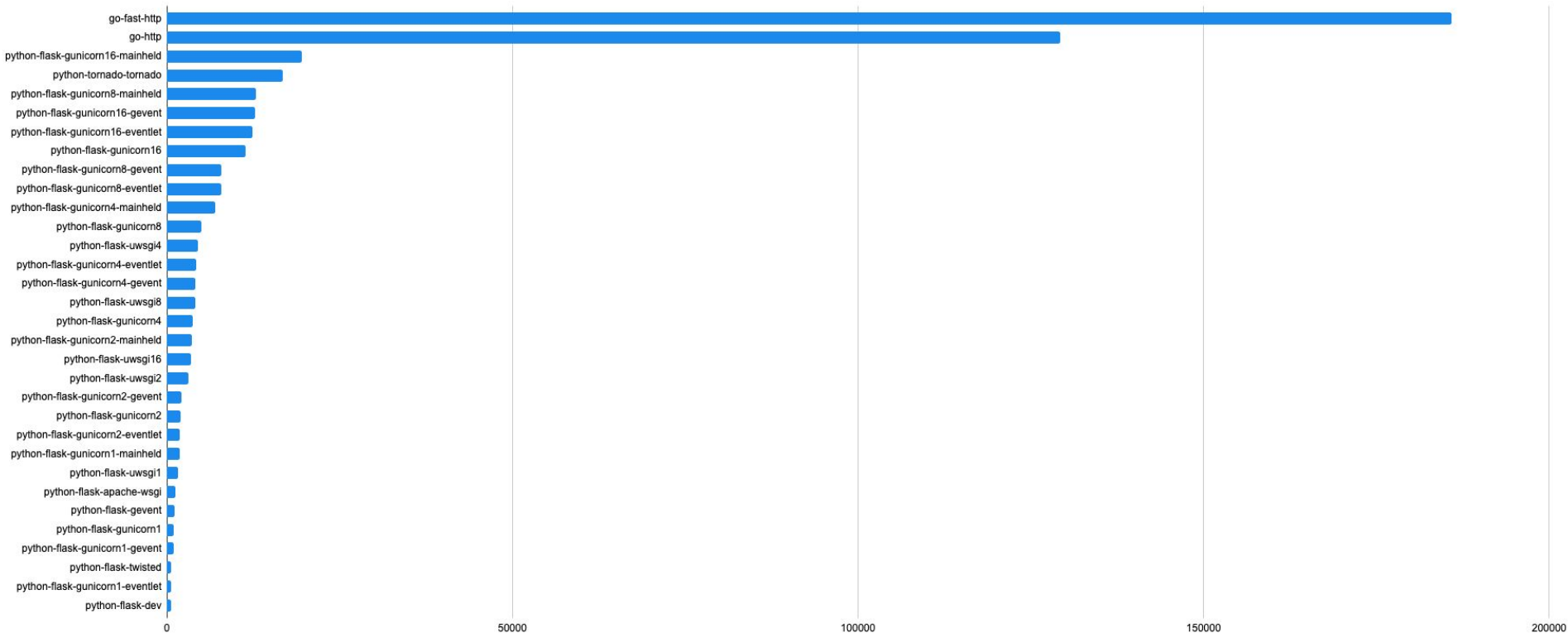
# Benchmarking env

- OS virtual machine
  - 16 CPU
  - 8 GB RAM
- Docker

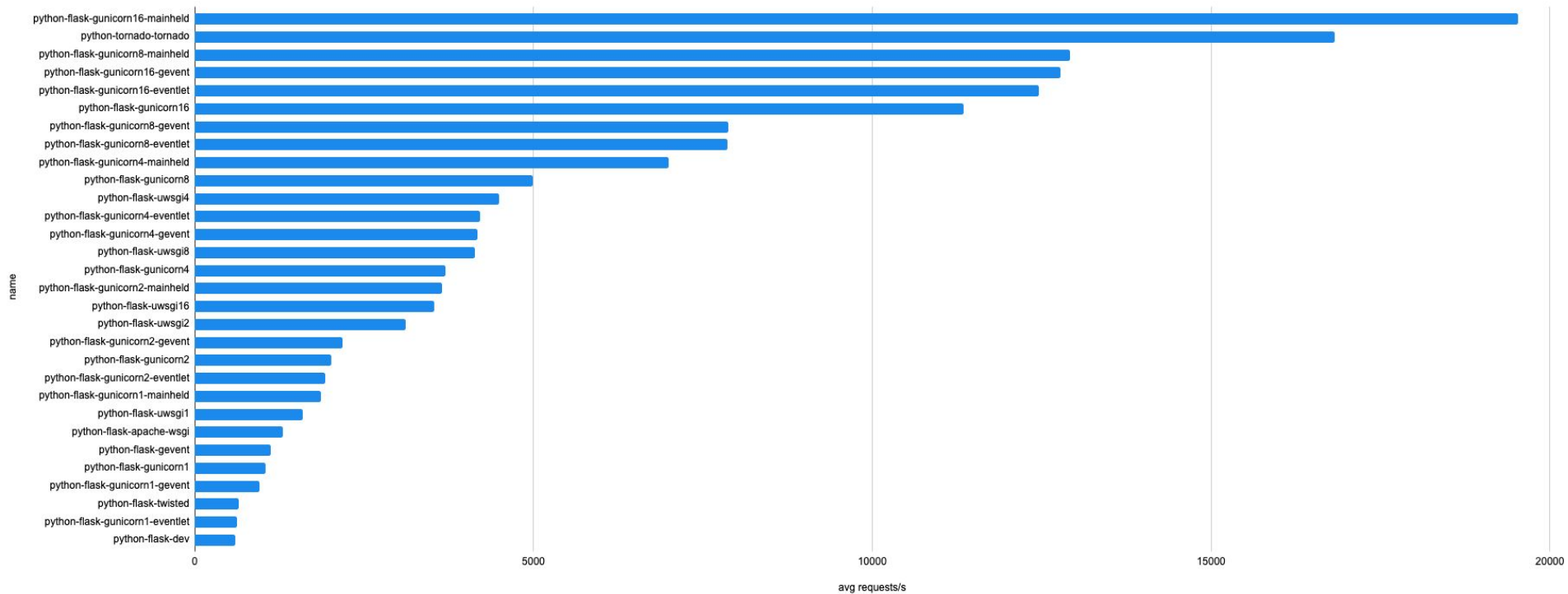
# Frameworks & servers

- Python
  - Flask
    - Dev
    - Gevent
    - Uwsgi
    - Apache mod\_wsgi
    - Twisted
    - Gunicorn
      - Sync, Eventlet, Mainheld, Gevent
  - Tornado
- Golang
  - Http
  - Fasthttp

# Results



# Results



# References

- <https://github.com/tivvit/shush-benchmarks>
- <https://github.com/the-benchmarkers/web-frameworks>
- <https://fgimian.github.io/blog/2018/06/05/python-api-framework-benchmarks/>
- <https://www.appdynamics.com/blog/engineering/a-performance-analysis-of-python-wsgi-servers-part-2/>
- <https://klen.github.io/py-frameworks-bench/#results>