

AbReplacment

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调研

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ab replacement



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GitHub - rakyll/boom: HTTP(S) load generator, ApacheBench (ab ...

<https://github.com/rakyll/boom> ▾ 翻译此页

boom - HTTP(S) load generator, ApacheBench (ab) replacement, written in Go.

[Boomer](#) · [Boom.go](#) · [Issues](#) · [README.md](#)

GitHub - tarekziade/boom: A replacement for AB (Apache Bench)

<https://github.com/tarekziade/boom> ▾ 翻译此页

A replacement for AB (Apache Bench). Contribute to boom development by creating an account on GitHub.

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<https://github.com/tarekziade/boom>

- 调研

- Find the design and core parts:

Design

Boom uses greenlets through Gevent to create *virtual users*, and uses Requests to do the queries.

Using greenlets allows Boom to spawn large amounts of virtual users with very little resources. It's not a problem to 1000 users and hammer a web application with them.

If you are interested in this project, you are welcome to join the fun at <https://github.com/tarekziade/boom>

- 1 Gevent (greenlets) to spawn users
- 2 Requests to do the queries
- 3 Argparse to make command line tools

- 调研

- Read the code and checkout its gits
- Read the docs
- 明白原理 (ex: **coroutine**)
- 开始仿造轮子

- 着手

- 实现最简单的功能

- print out

```
DuanWeiguang ((b9140bd...)) AbReplacement $ git checkout b9140bd55b97ae8b659945d61236b6d157f51825
HEAD is now at b9140bd... firstCommint
DuanWeiguang ((b9140bd...)) AbReplacement $ python test.py -n 3 -c 2 'https://www.google.com'
Namespace(concurrency=2, requests=3, url='https://www.google.com')
Starting the load [[<Greenlet at 0x1030195f0: run('https://www.google.com', 3)>, <Greenlet at 0x103019a50: run('https://www.google.com', 3)>]
[1.2729110717773438]
=[1.2729110717773438, 1.4869189262390137]
=[1.2729110717773438, 1.4869189262390137, 1.4175100326538086]
=[1.2729110717773438, 1.4869189262390137, 1.4175100326538086, 2.728654146194458]
=[1.2729110717773438, 1.4869189262390137, 1.4175100326538086, 2.728654146194458, 1.397111177444458]
=[1.2729110717773438, 1.4869189262390137, 1.4175100326538086, 2.728654146194458, 1.397111177444458, 1.5778260231018066]
=[<Greenlet at 0x1030195f0: run('https://www.google.com', 3)>, <Greenlet at 0x103019a50: run('https://www.google.com', 3)>]
] Done

Successful calls      6
Average              1.6468
Fastest              1.2729
Slowest              2.7287
DuanWeiguang ((b9140bd...)) AbReplacement $
```

- 着手

- 添加 methods
- 添加 todo

```
60 def main():
61     # todo -a AUTH, --auth AUTH
62     parser = argparse.ArgumentParser(description='AB For Humans.')
63
64     parser.add_argument('-n', '--requests', help='Number of requests',
65                       default=1,
66                       type=int)
67
68     parser.add_argument('-m', '--method', help='Concurrency',
69                       type=str, default='GET', choices=_VERBS)
70
71     parser.add_argument('-c', '--concurrency', help='Concurrency', default=1,
72                       type=int)
73
74     parser.add_argument('url', help='URL to hit')
75
76     args = parser.parse_args()
77     print args
78     try:
79         load(args.url, args.requests, args.concurrency, args.method)
80     except KeyboardInterrupt:
81         sys.exit(0)
82
83
```

Project Current File Scope Based Default Changelist

test.py

- (40, 7) # todo need to be changed to num/concurrency
- (61, 7) # todo -a AUTH, --auth AUTH

- 着手

- use `gevent.pool.Pool` instead of `gevent` to spawn

```
37
38
39 def run(url, num, method, concurrency):
40     """
41     Maintain a group of greenlets that are still running with the maximum
42     amount of active ones that will be allowed
43     """
44     pool = Pool(concurrency)
45     for i in range(num):
46         """
47         Begin a new greenlet & add it to the collection
48         of greenlets this group is monitoring
49         """
50         pool.spawn(onecall, url, method)
51     # Wait for this group to become empty at least once
52     pool.join()
53
54
```

- 着手

- Now -n represents the total amount of requests

```
DuanWeiguang ((2b22315...)) AbReplacement $ git checkout 7156673cb81c415d6437bb6ea40a82788ded2926
Previous HEAD position was 2b22315... Added methods
HEAD is now at 7156673... -n concurrent requests ==> single request
DuanWeiguang ((7156673...)) AbReplacement $ python test.py -n 3 -c 2 'https://www.google.com'
Namespace(concurrency=2, method='GET', requests=3, url='https://www.google.com')
Starting the load [===] Done

Successful calls          3
Total time                5.3362 s
Average                  2.6848
Fastest                  2.6534
Slowest                  2.7195
DuanWeiguang ((7156673...)) AbReplacement $
```