

## 《分布式计算》 负载均衡与缓存

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## 使用 ab 测试 http://localhost:8080/gtvg 结果如下:

```
10
Concurrency Level:
                            2. 591 seconds
Time taken for tests:
                            1000
Complete requests:
                            0
Failed requests:
Total transferred:
                            1485000 bytes
HTML transferred:
                            1234000 bytes
                           385.90 [#/sec] (mean)
25.913 [ms] (mean)
2.591 [ms] (mean, across all concurrent requests)
Requests per second:
Time per request:
Time per request:
Transfer rate:
                           559.63 [Kbytes/sec] received
Connection Times (ms)
                     mean[+/-sd] median
                min
                                              max
                           0. 9
37. 2
35. 3
37. 3
Connect:
                                               13
                  0
                       25
20
25
                  20
                                               354
Processing:
                                      14
                                      11
15
                                               353
Waiting:
                  2
                                               354
Total:
Percentage of the requests served within a certain time (ms)
           15
           25
  66%
           32
  75%
  80%
           35
  90%
           44
  95%
           68
  98%
          148
  99%
          261
 100%
          354 (longest request)
```

在并发数为 10,总请求数为 1000 的请求中,对首页的访问的总时间仅为 2.591 秒

测试 http://localhost:8080/gtvg/product/list 结果如下:

```
10
70.763 seconds
1000
 Concurrency Level:
Time taken for tests:
Complete requests:
    11ed requests: 928
(Connect: 0, Receive: 0, Length: 928, Exceptions: 0)
n-2xx responses: 928
tal transferred: 2404
 Failed requests:
 Non-2xx responses:
                                            928
24914811 bytes
24727843 bytes
14.13 [#/sec] (mean)
707.631 [ms] (mean)
70.763 [ms] (mean, across all concurrent requests)
343.84 [Kbytes/sec] received
Total transferred:
HTML transferred:
Requests per second:
Time per request:
Time per request:
Transfer rate:
Connection Times (ms)
                                  mean[+/-sd] median
0 0.4 1
706 533.0 557
706 533.0 556
                          min
0
                                                                          max
10
Connect:
                                                                         4777
4777
4778
                          177
177
Processing:
Waiting: 177 706 533.0 556 4/77

Total: 177 707 533.0 557 4778

ERROR: The median and mean for the initial connection time are more than twice the standard deviation apart. These results are NOT reliable.
 Percentage of the requests served within a certain time (ms) 50% 557 66% 657 75% 759 80% 830 90% 1187
              1187
1725
2585
3163
   90%
    95%
               4778 (longest request)
```

而在相同并发数和相同请求数的情况下,服务器响应 product/list 的时间达到了70.763 秒,可见对数据库的访问操作将远远增加服务器的响应时间。