

Redis 性能测试是通过同时执行多个命令实现的。

语法

redis 性能测试的基本命令如下：

```
redis-benchmark [option] [option value]
```

实例

以下实例同时执行 10000 个请求来检测性能：

```
$ redis-benchmark -n 10000 -q

PING_INLINE: 141043.72 requests per second
PING_BULK: 142857.14 requests per second
SET: 141442.72 requests per second
GET: 145348.83 requests per second
INCR: 137362.64 requests per second
LPUSH: 145348.83 requests per second
LPOP: 146198.83 requests per second
SADD: 146198.83 requests per second
SPOP: 149253.73 requests per second
LPUSH (needed to benchmark LRANGE): 148588.42 requests per second
LRANGE_100 (first 100 elements): 58411.21 requests per second
LRANGE_300 (first 300 elements): 21195.42 requests per second
LRANGE_500 (first 450 elements): 14539.11 requests per second
LRANGE_600 (first 600 elements): 10504.20 requests per second
MSET (10 keys): 93283.58 requests per second
```

redis 性能测试工具可选参数如下所示：

| 序号 | 选项 | 描述 | 默认值 |
|----|----|-------------------------|-----------|
| 1 | -h | 指定服务器主机名 | 127.0.0.1 |
| 2 | -p | 指定服务器端口 | 6379 |
| 3 | -s | 指定服务器 socket | |
| 4 | -c | 指定并发连接数 | 50 |
| 5 | -n | 指定请求数 | 10000 |
| 6 | -d | 以字节的形式指定 SET/GET 值的数据大小 | 2 |
| | | | |

| | | | |
|----|--------------|-----------------------------------|---|
| 7 | -k | 1=keep alive 0=reconnect | 1 |
| 8 | -r | SET/GET/INCR 使用随机 key, SADD 使用随机值 | |
| 9 | -P | 通过管道传输 <numreq> 请求 | 1 |
| 10 | -q | 强制退出 redis。仅显示 query/sec 值 | |
| 11 | --csv | 以 CSV 格式输出 | |
| 12 | -l | 生成循环，永久执行测试 | |
| 13 | -t | 仅运行以逗号分隔的测试命令列表。 | |
| 14 | -I | Idle 模式。仅打开 N 个 idle 连接并等待。 | |

实例

以下实例我们使用了多个参数来测试 redis 性能：

```
$ redis-benchmark -h 127.0.0.1 -p 6379 -t set,lpush -n 10000 -q
```

```
SET: 146198.83 requests per second
```

```
LPUSH: 145560.41 requests per second
```

以上实例中主机为 127.0.0.1，端口号为 6379，执行的命令为 set, lpush，请求数为 10000，通过 -q 参数让结果只显示每秒执行的请求数。

训练：

```
C:\WINDOWS\system32>redis-benchmark -h 127.0.0.1 -p 6379 -t set,lpush -n 10000 -q
```

```
SET: 8960.57 requests per second
```

```
LPUSH: 8312.55 requests per second
```

```
C:\WINDOWS\system32>redis-benchmark -n 10000 -q
```

```
PING_INLINE: 9310.99 requests per second
```

```
PING_BULK: 9699.32 requests per second
```

```
SET: 9090.91 requests per second
```

```
GET: 9606.15 requests per second
```

```
INCR: 9487.67 requests per second
```

LPUSH: 9708.74 requests per second
RPUSH: 9433.96 requests per second
LPOP: 7651.11 requests per second
RPOP: 8084.07 requests per second
SADD: 9099.18 requests per second
SPOP: 9587.73 requests per second
LPUSH (needed to benchmark LRANGE): 9615.38 requests per second
LRANGE_100 (first 100 elements): 9671.18 requests per second
LRANGE_300 (first 300 elements): 9460.74 requests per second
LRANGE_500 (first 450 elements): 9615.38 requests per second
LRANGE_600 (first 600 elements): 9633.91 requests per second
MSET (10 keys): 8665.51 requests per second