

1. Установил (в докере)

```
talasovvladislav@MacBook-Pro-CDAdmin-8 clickhouse % docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                                NAMES
ca2cd337aeab   clickhouse/clickhouse-server        "/entrypoint.sh"        5 hours ago   Up 5 hours   127.0.0.1:8123->8123/tcp, 127.0.0.1:9000->9000/tcp, 9009/tcp   clickhouse-clickhouse-1
```

2. Загрузил данные

```
ca2cd337aeab :) select count(1) from default.trips;
```

```
SELECT count(1)
FROM default.trips
```

Query id: a7b834e1-bff6-4fa5-acaf-08ac9ea8c181

```
1. [count(1)
    3000317] -- 3.00 million
```

1 row in set. Elapsed: 0.007 sec.

3. Проверка с условием

```
ca2cd337aeab :) select count(1) from trips where payment_type = 1
```

```
SELECT count(1)
FROM trips
WHERE payment_type = 1
```

Query id: 15d1bc94-47d5-4ba0-9f1c-2e9fcd4687bd

```
1. [count(1)
    1850287] -- 1.85 million
```

1 row in set. Elapsed: 0.028 sec. Processed 3.00 million rows, 3.00 MB (107.84 million rows/s., 107.84 MB/s.)
Peak memory usage: 117.89 KiB.

4. Результат бенчмарк (дефолт настройки)

```
root@0001e696a7d9:/# echo "SELECT * FROM default.trips LIMIT 1000000 OFFSET 1000000" | clickhouse-benchmark -i 10
Loaded 1 queries.

Queries executed: 6.

localhost:9000, queries: 6, QPS: 5.645, RPS: 11345934.780, MiB/s: 786.107, result RPS: 5645387.789, result MiB/s: 391.159.

0.000%      0.151 sec.
10.000%     0.153 sec.
20.000%     0.153 sec.
30.000%     0.154 sec.
40.000%     0.154 sec.
50.000%     0.154 sec.
60.000%     0.154 sec.
70.000%     0.157 sec.
80.000%     0.157 sec.
90.000%     0.184 sec.
95.000%     0.184 sec.
99.000%     0.184 sec.
99.900%     0.184 sec.
99.990%     0.184 sec.

Queries executed: 10.

localhost:9000, queries: 10, QPS: 5.966, RPS: 11983723.326, MiB/s: 830.293, result RPS: 5965974.108, result MiB/s: 413.379.

0.000%      0.148 sec.
10.000%     0.149 sec.
20.000%     0.151 sec.
30.000%     0.151 sec.
40.000%     0.153 sec.
50.000%     0.154 sec.
60.000%     0.154 sec.
70.000%     0.154 sec.
80.000%     0.157 sec.
90.000%     0.157 sec.
95.000%     0.184 sec.
99.000%     0.184 sec.
99.900%     0.184 sec.
99.990%     0.184 sec.
```

6. Результат бенчмарк (не дефолт настройки)

```
root@с81163472108:/# echo "SELECT * FROM default.trips LIMIT 1000000 OFFSET 1000000" | clickhouse-benchmark -i 10
Loaded 1 queries.
```

Queries executed: 6.

localhost:9000, queries: 6, QPS: 5.881, RPS: 11827105.700, MiB/s: 819.428, result RPS: 5880808.508, result MiB/s: 407.480.

0.000%	0.148 sec.
10.000%	0.151 sec.
20.000%	0.151 sec.
30.000%	0.155 sec.
40.000%	0.155 sec.
50.000%	0.163 sec.
60.000%	0.163 sec.
70.000%	0.166 sec.
80.000%	0.166 sec.
90.000%	0.229 sec.
95.000%	0.229 sec.
99.000%	0.229 sec.
99.900%	0.229 sec.
99.990%	0.229 sec.

Queries executed: 10.

localhost:9000, queries: 10, QPS: 5.790, RPS: 11635767.884, MiB/s: 806.177, result RPS: 5790386.554, result MiB/s: 401.224.

0.000%	0.148 sec.
10.000%	0.148 sec.
20.000%	0.150 sec.
30.000%	0.150 sec.
40.000%	0.151 sec.
50.000%	0.152 sec.
60.000%	0.152 sec.
70.000%	0.155 sec.
80.000%	0.163 sec.
90.000%	0.166 sec.
95.000%	0.229 sec.
99.000%	0.229 sec.
99.900%	0.229 sec.
99.990%	0.229 sec.