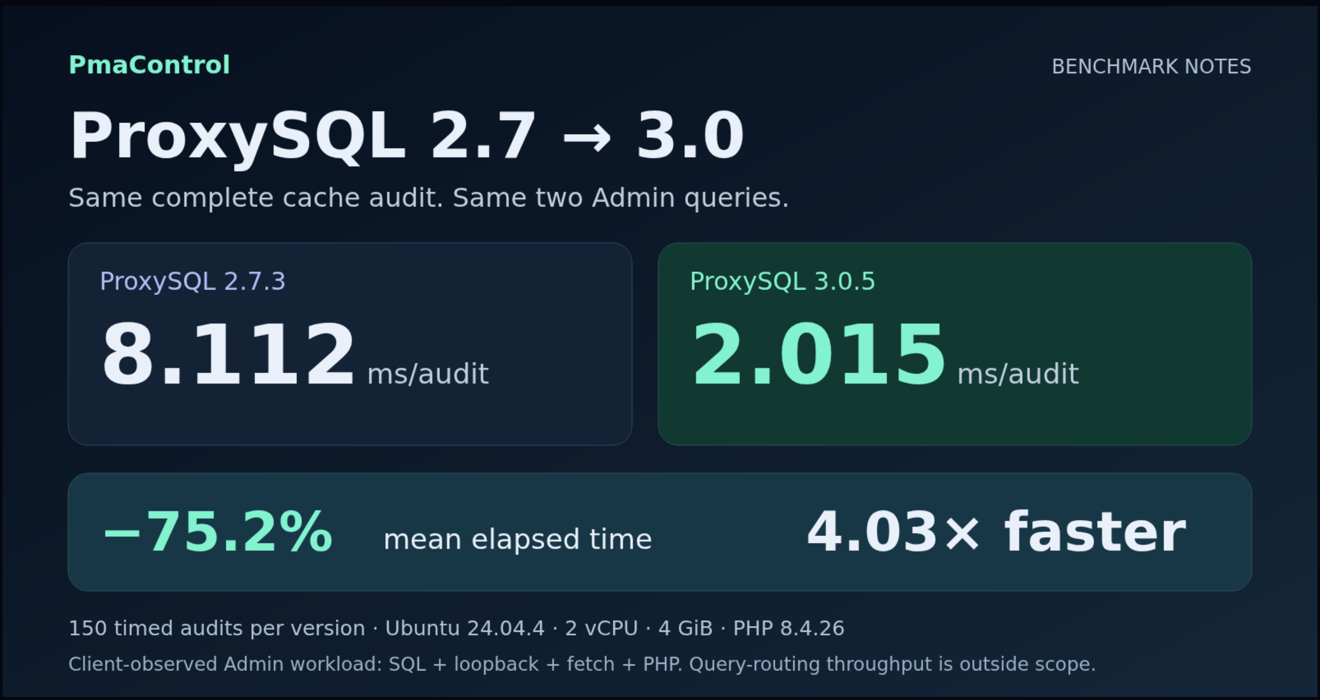
ProxySQL 2.7 → 3.0：PmaControl [illegible] 4 [illegible]

Aurélien LEQUOY · 2026[illegible]9[illegible]27[illegible]

PMACONTROL **PROXYSQL** **BENCHMARK** **MARIADB** **MYSQL** **OBSERVABILITY**



[illegible] PmaControl [illegible] **8.112** [illegible] **2.015** [illegible] **75.16%** [illegible] **4.03** [illegible]

[illegible] **Admin** [illegible] PmaControl [illegible] ProxySQL

[illegible]

[illegible]	ProxySQL 2.7.3	ProxySQL 3.0.5	[illegible]
[illegible], ms/audit	8.112204	2.014760	75.16 %
[illegible], ms/audit	7.895812	2.053810	73.99 %
[illegible], ms/audit	11.914402	2.919234	75.50 %
PHP [illegible]MiB	4	4	[illegible]

ms/audit [illegible] **15** [illegible] **10** [illegible]

4 MiB [illegible] PHP [illegible] PHP [illegible] ProxySQL [illegible]

PmaControl

BENCHMARK NOTES / 27 SEP 2026

ProxySQL 2.7 → 3.0

A nice improvement during PmaControl cache-audit benchmarks.

−75.2%
MEAN ELAPSED TIME PER AUDIT

4.03×
faster complete cache audits

Mean time · complete cache audit

ms/audit · lower is better

Supporting measurements	2.7.3	3.0.5	UNIT
Median batch mean	7.896	2.054	ms/audit
Maximum batch mean	11.914	2.919	ms/audit

Median / maximum across 15 batch means; each batch averages 10 audits.

What “ms/audit” measures

One complete cache audit = two read-only ProxySQL Admin queries.

01 SQL execution
02 Loopback + fetch
03 PHP audit logic

Client elapsed time. Connection setup, process startup, HTTP and UI rendering are outside the timer.

The benchmark setup

Ubuntu 24.04.4 · 2 vCPU · 4 GiB RAM · PHP 8.4.26

150 timed complete audits per version

15 batches × 10 audits · 3 warmups per batch

Same audit code and SQL · 1 + 7 rows returned per audit

PHP allocated peak: 4 MiB for both versions

Scope: this cache-audit workload on a shared test VM.
These are client-observed Admin timings. Query-routing throughput and standalone server execution time were outside this benchmark.

Source: PmaControl PR #6389 · fixed complete audit on both versions
Builds: 2.7.3-12-g50b7f85 / 3.0.5-60-g7e9e009

Nice improvement, ProxySQL.

“ms/audit”的含义

速`QueryCacheEffectiveness::run()`，并不代表对服务器的所有检查。它执行两条只读 SELECT：第一条读取已启用的缓存规则及其匹配计数，第二条读取缓存计数器和配置大小。测试数据分别返回

[illegible] PHP [illegible] SQL [illegible]loopback [illegible] PmaControl [illegible] PHP [illegible]HTTP [illegible]

[illegible]

```
SELECT r.rule_id, r.cache_ttl, r.digest,
       r.match_digest, r.match_pattern,
       COALESCE(h.hits, 0) AS hits
FROM runtime_mysql_query_rules r
LEFT JOIN stats_mysql_query_rules h
       ON h.rule_id = r.rule_id
WHERE r.active = 1 AND r.cache_ttl > 0
ORDER BY r.rule_id;
```

```
SELECT Variable_Name AS name, Variable_Value AS value
FROM stats_mysql_global
WHERE Variable_Name IN (
    'Query_Cache_count_GET', 'Query_Cache_count_GET_OK',
    'Query_Cache_count_SET', 'Query_Cache_Memory_bytes',
    'Query_Cache_Entries', 'Query_Cache_Purged'
)
UNION ALL
SELECT variable_name, variable_value
FROM global_variables
WHERE variable_name = 'mysql-query_cache_size_MB';
```

`stats_mysql_query_rules.hits` [illegible] `mysql-query_cache_size_MB` [illegible] MAIN runtime [illegible]

[illegible]

[illegible] **Ubuntu 24.04.4 LTS** [illegible] **2 vCPU** [illegible] **4 GiB RAM** [illegible] **PHP 8.4.26** [illegible] loopback [illegible] ProxySQL [illegible]

- 2.7 [illegible]`2.7.3-12-g50b7f85`[illegible]
- 3.0 [illegible]`3.0.5-60-g7e9e009`[illegible]

[illegible] **15** [illegible] **3** [illegible] **10** [illegible] 150 [illegible] 300 [illegible] 600 [illegible] SELECT[illegible]PHP [illegible] SQL [illegible]

[illegible] 15 [illegible] AB/BA[illegible] PmaControl [illegible] **ProxySQL** [illegible] 600 [illegible] 900 [illegible] ProxySQL 2.7.3 [illegible] 3.0.5

[illegible]

[illegible] `rule_id=1` [illegible] TTL [illegible] 5,000 [illegible]

[illegible] ProxySQL [illegible] PmaControl [illegible]

[illegible]

[illegible] 3.0 [illegible]PHP [illegible]

[illegible] prepare/step/copy/finalize [illegible] SQL [illegible]

[illegible] ProxySQL [illegible]

[illegible]

[illegible] 30 [illegible]300 [illegible]Python [illegible]

[illegible] `100 × (1 − time_3.0 / time_2.7)` [illegible] `time_2.7 / time_3.0` [illegible]commit [illegible] PR [illegible]

```
curl -fsSLO https://pmacontrol.com/downloads/proxysql-2.7-vs-3.0/benchmark-data.json
curl -fsSLO https://pmacontrol.com/downloads/proxysql-2.7-vs-3.0/analyze.py
python3 analyze.py benchmark-data.json
```

```
PmaControl revision:
b4e7b4c6ca72cf27077ddbdb1f2c89af05800b5a
QueryCacheEffectiveness helper SHA-256:
c47a169935f665259554bd0fbaa85e90af9cbcd3983bf7ad3548e2caaf63d4dc
```

[illegible]

- [illegible] PNG [illegible]1600 × 2000
- [illegible] SVG [illegible]
- JSON [illegible]
- Python [illegible]
- [illegible] LinkedIn [illegible]
- [illegible]

[illegible] PDF [illegible]

PmaControl PR #6389 [illegible] issue #6390 [illegible] Forgejo [illegible]