# 慢查询改进说明

## 一、使用说明

增加如下两个参数

slow-query-total-log：是否进行语句运行总时间的日志记录的开关，默认关闭。

long\_query\_total\_time：进行语句运行总时间的日志记录的阀值，默认10秒

说明

slow-query-total-log参数只有在slow-query-log参数设置为on时，才会生效，否则不论slow-query-total-log是关闭还是开启，都不会将符合条件的慢查询记入日志

在输出中增加Execution\_time的信息，该信息为获得锁之后SQL语句实际的执行时间。

## 二、测试

打开总查询时间慢日志

set global slow\_query\_total\_log = 1;

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1、小于执行时间，小于总查询时间

set session long\_query\_time=1;

set session long\_query\_total\_time=3;

select sleep(0.1);

结果：无slow记录

验证：正确

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2、小于执行时间，大于总查询时间

Trx1                                    Trx2

Begin;

select 1 from t1 limit 1 for update;

                                        set session long\_query\_time=1;

                                        set session long\_query\_total\_time=3;

                                        select sleep(0.5),1 from t1 limit 1 for update;

commit;

结果：有slow记录

验证：正确

输出：

# Time: 141218 11:02:53

# User@Host: root[root] @ localhost []  Id:     2

# Query\_time: 7.604761  Lock\_time: 7.103846 Rows\_sent: 1  Rows\_examined: 1 Execution\_time: 0.500915

SET timestamp=1418871773;

select sleep(0.5),1 from t1 limit 1 for update;

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3、大于执行时间，小于总查询时间

Trx1                                    Trx2

Begin;

select 1 from t1 limit 1 for update;

                                        set session long\_query\_time=1;

                                        set session long\_query\_total\_time=100;

                                        select sleep(1.5),1 from t1 limit 1 for update;

commit;

结果：有slow记录

验证：正确

输出：

# Time: 141218 11:07:26

# User@Host: root[root] @ localhost []  Id:     2

# Query\_time: 6.340304  Lock\_time: 4.839315 Rows\_sent: 1  Rows\_examined: 1 Execution\_time: 1.500989

SET timestamp=1418872046;

select sleep(1.5),1 from t1 limit 1 for update;

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关闭总查询时间慢日志

set global slow\_query\_total\_log = 0;

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1、小于执行时间

Trx1                                    Trx2

Begin;

select 1 from t1 limit 1 for update;

                                        set session long\_query\_time=1;

                                        select sleep(0.6),1 from t1 limit 1 for update;

commit;

结果：无slow记录

验证：正确

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2、大于执行时间

Trx1                                    Trx2

Begin;

select 1 from t1 limit 1 for update;

                                        set session long\_query\_time=1;

                                        select sleep(1.6),1 from t1 limit 1 for update;

commit;

结果：有slow记录

验证：正确

输出：

# Time: 141218 11:10:09

# User@Host: root[root] @ localhost []  Id:     2

# Query\_time: 5.820289  Lock\_time: 4.219301 Rows\_sent: 1  Rows\_examined: 1 Execution\_time: 1.600988

SET timestamp=1418872209;

select sleep(1.6),1 from t1 limit 1 for update;