

# mongodb耗时问题解决

调整前:

测试1:

uri: mongodb://booth:ZGoarrp7cGV8VtZS@dds-uf6c109616b85d949562-pub.mongodb.rds.aliyuncs.com:3717/admin?replicaSet=mgset-73067374&minPoolSize=2&maxPoolSize=10

```
> clusterSettings = {ClusterSettings@8200} "{hosts=[dds-uf6c109616b85d949562-pub.mongodb.rds.aliyuncs.com:3717], m
> socketSettings = {SocketSettings@8201} "SocketSettings{connectTimeoutMS=10000, readTimeoutMS=0, receiveBufferSize=
> heartbeatSocketSettings = {SocketSettings@8202} "SocketSettings{connectTimeoutMS=10000, readTimeoutMS=10000, rec
~> connectionPoolSettings = {ConnectionPoolSettings@8203} "ConnectionPoolSettings{maxSize=10, minSize=2, maxWaitTime
    connectionPoolListeners = {Collections$UnmodifiableRandomAccessList@8218} size = 0
    maxSize = 10
    minSize = 2
    maxWaitTimeMS = 120000
    maxConnectionLifeTimeMS = 0
    maxConnectionIdleTimeMS = 0
    maintenanceInitialDelayMS = 0
```

```
d-17] com.omni.mongotest.manager.ExecManager : 插入耗时: 6412
ad-12] com.omni.mongotest.manager.ExecManager : 插入耗时: 3850
ad-6] com.omni.mongotest.manager.ExecManager : 插入耗时: 4122
ad-2] com.omni.mongotest.manager.ExecManager : 插入耗时: 4237
d-17] com.omni.mongotest.manager.ExecManager : 插入耗时: 4612
d-11] com.omni.mongotest.manager.ExecManager : 插入耗时: 5498
ad-9] com.omni.mongotest.manager.ExecManager : 插入耗时: 5617
d-20] com.omni.mongotest.manager.ExecManager : 插入耗时: 5865
ad-8] com.omni.mongotest.manager.ExecManager : 插入耗时: 5920
d-10] com.omni.mongotest.manager.ExecManager : 插入耗时: 6292
d-15] com.omni.mongotest.manager.ExecManager : 插入耗时: 6340
d-18] com.omni.mongotest.manager.ExecManager : 插入耗时: 6640
ad-3] com.omni.mongotest.manager.ExecManager : 插入耗时: 6658
ad-1] com.omni.mongotest.manager.ExecManager : 插入耗时: 6895
ad-7] com.omni.mongotest.manager.ExecManager : 插入耗时: 6931
d-13] com.omni.mongotest.manager.ExecManager : 插入耗时: 7128
d-19] com.omni.mongotest.manager.ExecManager : 插入耗时: 7127
```

测试2:

uri: mongodb://booth:ZGoarrp7cGV8VtZS@dds-uf6c109616b85d949562-pub.mongodb.rds.aliyuncs.com:3717/admin?replicaSet=mgset-73067374&minPoolSize=20&maxPoolSize=2000

```
> { credential = {MongoCredential@7522} "MongoCredential{mechanism=null, userName='booth', source='admin'}",
  streamFactoryFactory = null,
  commandListeners = {ArrayList@7523} size = 0,
  codecRegistry = {ProvidersCodecRegistry@7524},
  clusterSettings = {ClusterSettings@7525} "{hosts=[dds-uf6c109616b85d949562-pub.mongodb.rds.aliyuncs.com:3717],",
  socketSettings = {SocketSettings@7526} "SocketSettings{connectTimeoutMS=10000, readTimeoutMS=0, writeTimeoutMS=0, connectTimeoutMS=10000, readTimeoutMS=0, writeTimeoutMS=0}",
  heartbeatSocketSettings = {SocketSettings@7527} "SocketSettings{connectTimeoutMS=10000, readTimeoutMS=0, writeTimeoutMS=0, connectTimeoutMS=10000, readTimeoutMS=0, writeTimeoutMS=0}",
  connectionPoolSettings = {ConnectionPoolSettings@7528} "ConnectionPoolSettings{maxSize=2000, minSize=20, maxWaitTimeMS=120000, maxConnectionLifeTimeMS=0, maxConnectionIdleTimeMS=0, maintenanceInitialDelayMS=0, maintenancePeriodMS=60000}",
  connectionPoolListeners = {Collections$UnmodifiableRandomAccessList@7543} size = 0,
  maxSize = 2000,
  minSize = 20,
  maxWaitTimeMS = 120000,
  maxConnectionLifeTimeMS = 0,
  maxConnectionIdleTimeMS = 0,
  maintenanceInitialDelayMS = 0,
  maintenancePeriodMS = 60000 }
```

打印耗时情况:

```
org.mongodb.driver.connection : Opened connection [connectionId=1]
org.mongodb.driver.connection : Opened connection [connectionId=2]
org.mongodb.driver.connection : Opened connection [connectionId=3]
org.mongodb.driver.connection : Opened connection [connectionId=4]
com.omni.mongotest.manager.ExecManager : 插入耗时: 21583
com.omni.mongotest.manager.ExecManager : 插入耗时: 21614
org.mongodb.driver.connection : Opened connection [connectionId=5]
org.mongodb.driver.connection : Opened connection [connectionId=6]
org.mongodb.driver.connection : Opened connection [connectionId=7]
org.mongodb.driver.connection : Opened connection [connectionId=8]
org.mongodb.driver.connection : Opened connection [connectionId=9]
```

可见线程池配置是生效的，只不过不是瓶颈。所以看着效果不明显，因此尝试将批量insert改为单个insert;

注意maxPoolSize不是越大越好，需要根据实际情况来看

调整后:

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```

}

@Transactional(rollbackFor = Exception.class)
public void insertTextDocOne() {
    long l1 = System.currentTimeMillis();
    for (int i = 0; i < 100; i++) {
        TextDoc textDoc = new TextDoc();
        textDoc.setDoc(CodeUtils.generateRandomChinese(count: 4000));
        mongoTemplate.insert(textDoc, collectionName: "test_doc");
    }
    long l2 = System.currentTimeMillis();
    log.info("插入耗时: {}", l2 - l1);
}

```

```

ol-1-thread-16] com.omni.mongotest.manager.ExecManager : 插入耗时: 8064
ool-1-thread-1] com.omni.mongotest.manager.ExecManager : 插入耗时: 8065
ol-1-thread-12] com.omni.mongotest.manager.ExecManager : 插入耗时: 8065
ool-1-thread-4] com.omni.mongotest.manager.ExecManager : 插入耗时: 8095
ool-1-thread-8] com.omni.mongotest.manager.ExecManager : 插入耗时: 8120
ool-1-thread-2] com.omni.mongotest.manager.ExecManager : 插入耗时: 8160
ool-1-thread-3] com.omni.mongotest.manager.ExecManager : 插入耗时: 8220
ol-1-thread-11] com.omni.mongotest.manager.ExecManager : 插入耗时: 8224
ol-1-thread-19] com.omni.mongotest.manager.ExecManager : 插入耗时: 8275
ol-1-thread-14] com.omni.mongotest.manager.ExecManager : 插入耗时: 8283
ol-1-thread-13] com.omni.mongotest.manager.ExecManager : 插入耗时: 8286
ol-1-thread-17] com.omni.mongotest.manager.ExecManager : 插入耗时: 8302

```

注意：需要控制事务@Transaction