PS + PO

参数

```
# 吞吐量优先策略:

JAVA_OPT="${JAVA_OPT} -Xms256m -Xmx256m -Xmn125m -XX:MetaspaceSize=128m -Xss512k"

JAVA_OPT="${JAVA_OPT} -XX:+UseParallelGC -XX:+UseParallelOldGC"

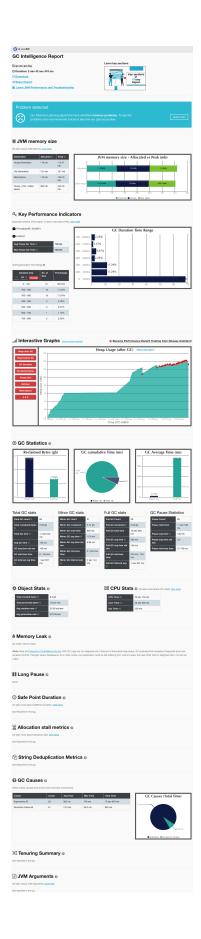
JAVA_OPT="${JAVA_OPT} -Xlog:gc*:logs/gc-ps-po.log:time"

java -server ${JAVA_OPT} -jar ./testapp-0.0.4-SNAPSHOT.jar >> ./logs/app-ps-po.log 2>&1 &
```

Dashboard



GCEasy



CMS

参数

JDK11已经废弃使用+UseParNewGC参数

```
# 响应时间优先策略

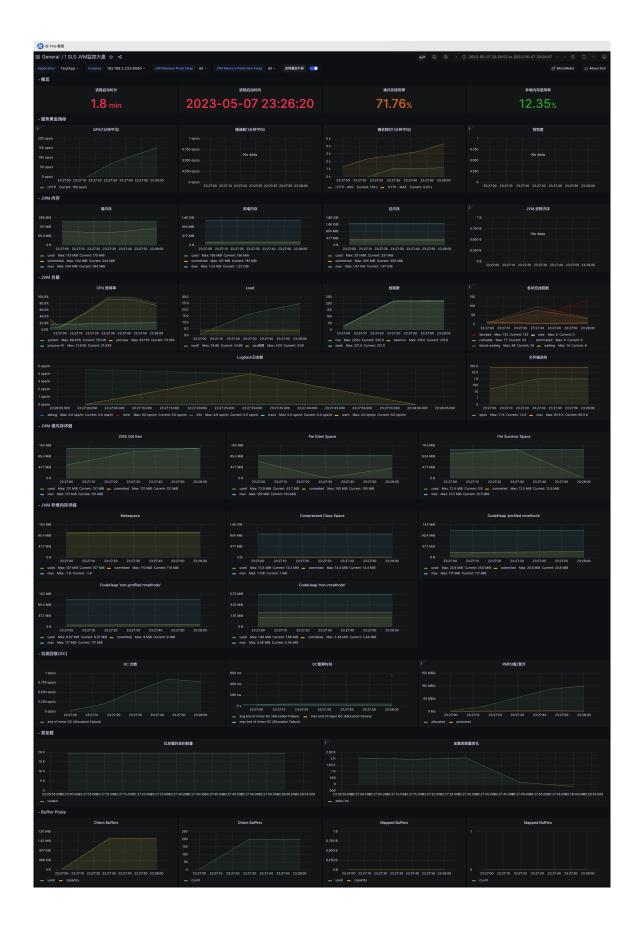
JAVA_OPT="${JAVA_OPT} -Xms256m -Xmx256m -Xmn125m -XX:MetaspaceSize=128m -Xss512k"

JAVA_OPT="${JAVA_OPT} -XX:+UseConcMarkSweepGC"

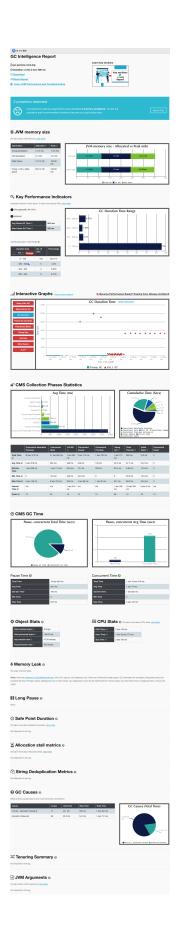
JAVA_OPT="${JAVA_OPT} -Xlog:gc*:logs/gc-parnew-cms.log:time"

java -server ${JAVA_OPT} -jar ./testapp-0.0.4-SNAPSHOT.jar >> ./logs/app-parnew-cms.log 2>&1 &
```

Dashboard



GCEasy



G1

参数

```
# 全功能垃圾收集器

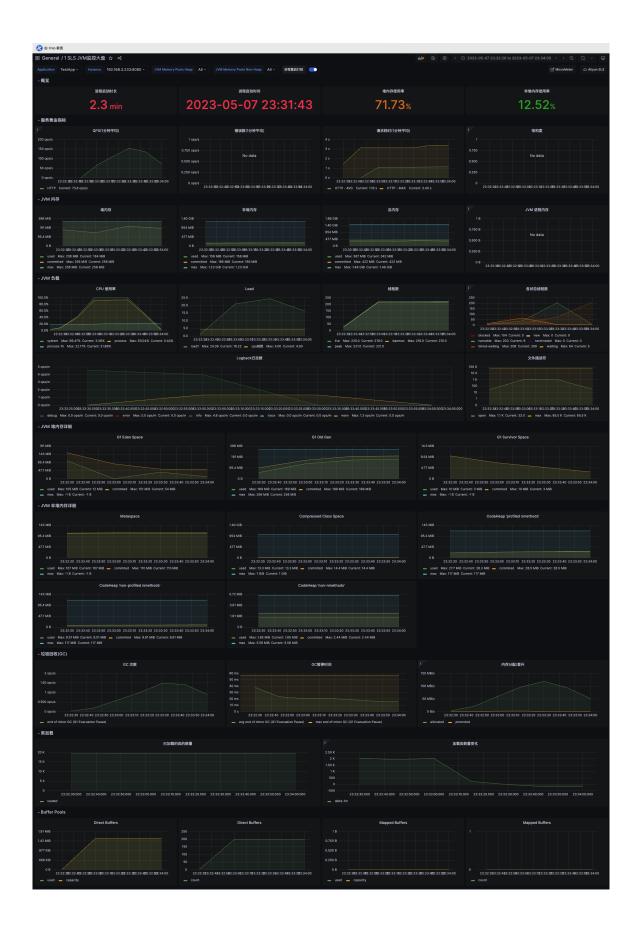
JAVA_OPT="${JAVA_OPT} -Xms256m -Xmx256m -XX:MetaspaceSize=128m -Xss512k"

JAVA_OPT="${JAVA_OPT} -XX:+UseG1GC -XX:MaxGCPauseMillis=100"

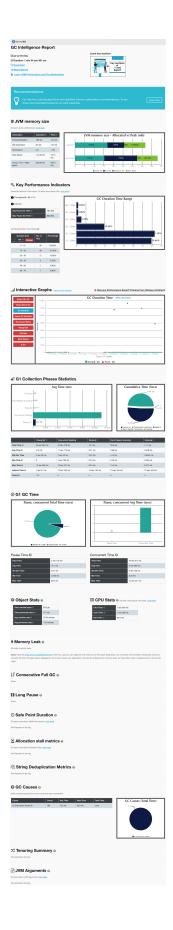
JAVA_OPT="${JAVA_OPT} -Xlog:gc*:logs/gc-g-one.log:time"

java -server ${JAVA_OPT} -jar ./testapp-0.0.4-SNAPSHOT.jar >> ./logs/app-g1.log 2>&1 &
```

Dashboard



GCEasy



结论

- 三次测试差异不明显,说明能过JVM调优来优化系统确实应该最后考虑的手段。
- 在我的测试环境下,G1GC的效果不错,10000次请求用时最短,并且没有出现 FullGC。

• G1和CMS内存使用率差不多,都高于PS+PO