# hadoop性能测试

### TestDFSIO

TestDFSIO用于测试HDFS的IO性能

1、写入10个1GB的文件

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar TestDFSIO -write -nrFiles 10 -size 1GB

2、读取10个1GB的文件

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar TestDFSIO -read -nrFiles 10 -size 1GB

3、删除测试数据

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar TestDFSIO -clean

### nnbench

nnbench 用于测试namenode的负载

1、写操作测试

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar nnbench -operation create\_write -blocksize 134217728 -numberOfFiles 1000 -replicationFactorPerFile 3

2、读操作测试

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar nnbench -operation open\_read -numberOfFiles 1000 -readFileAfterOpen true

3、重命名操作测试

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar nnbench -operation rename -numberOfFiles 1000

4、删除操作测试

yarn jar $HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-jobclient-${HADOOP\_VERSION}-tests.jar nnbench -operation delete -numberOfFiles 1000

### mrbench

mrbench用于测试map/reduce job执行效率