**MULTIPLE SMALL FILES REGION DEFINITION FIRST DIGIT:**

**OUTPUT FOR BLOCK SIZE:**

Status: HEALTHY

Total size: 2183910056 B

Total dirs: 1

Total files: 1341

Total blocks (validated): 1341 (avg. block size 1628568 B)

Minimally replicated blocks: 1341 (100.0 %)

Over-replicated blocks: 0 (0.0 %)

Under-replicated blocks: 0 (0.0 %)

Mis-replicated blocks: 0 (0.0 %)

Default replication factor: 1

Average block replication: 1.0

Corrupt blocks: 0

Missing replicas: 0 (0.0 %)

Number of data-nodes: 3

Number of racks: 1

**NUMBER OF BLOCKS ON DATANODE1 DATNODE2 AND DATANODE 3 RESP:**

hadoop fsck /user/nxh130330/input\_files3 -files -location -blocks -racks | grep /default-rack/10.176.92.131 | wc -l

462

hadoop fsck /user/nxh130330/input\_files3 -files -location -blocks -racks | grep /default-rack/10.176.92.132 | wc -l

443

hadoop fsck /user/nxh130330/input\_files3 -files -location -blocks -racks | grep /default-rack/10.176.92.133 | wc -l

436

**c**

Job number: job\_201411071216\_0029

14/11/07 14:10:19 INFO mapred.JobClient: Counters: 31

14/11/07 14:10:19 INFO mapred.JobClient: Job Counters

14/11/07 14:10:19 INFO mapred.JobClient: Launched reduce tasks=1

14/11/07 14:10:19 INFO mapred.JobClient: SLOTS\_MILLIS\_MAPS=41861844

14/11/07 14:10:19 INFO mapred.JobClient: Total time spent by all reduces waiting after reserving slots (ms)=0

14/11/07 14:10:19 INFO mapred.JobClient: Total time spent by all maps waiting after reserving slots (ms)=0

14/11/07 14:10:19 INFO mapred.JobClient: Rack-local map tasks=62

14/11/07 14:10:19 INFO mapred.JobClient: Launched map tasks=1403

14/11/07 14:10:19 INFO mapred.JobClient: Data-local map tasks=1341

14/11/07 14:10:19 INFO mapred.JobClient: SLOTS\_MILLIS\_REDUCES=474216

14/11/07 14:10:19 INFO mapred.JobClient: File Input Format Counters

14/11/07 14:10:19 INFO mapred.JobClient: Bytes Read=2183910056

14/11/07 14:10:19 INFO mapred.JobClient: File Output Format Counters

14/11/07 14:10:19 INFO mapred.JobClient: Bytes Written=15608

14/11/07 14:10:19 INFO mapred.JobClient: FileSystemCounters

14/11/07 14:10:19 INFO mapred.JobClient: FILE\_BYTES\_READ=335658

14/11/07 14:10:19 INFO mapred.JobClient: HDFS\_BYTES\_READ=2184077576

14/11/07 14:10:19 INFO mapred.JobClient: FILE\_BYTES\_WRITTEN=78042699

14/11/07 14:10:19 INFO mapred.JobClient: HDFS\_BYTES\_WRITTEN=15608

14/11/07 14:10:19 INFO mapred.JobClient: Map-Reduce Framework

14/11/07 14:10:19 INFO mapred.JobClient: Map output materialized bytes=1010287

14/11/07 14:10:19 INFO mapred.JobClient: Map input records=15669890

14/11/07 14:10:19 INFO mapred.JobClient: Reduce shuffle bytes=1010287

14/11/07 14:10:19 INFO mapred.JobClient: Spilled Records=57952

14/11/07 14:10:19 INFO mapred.JobClient: Map output bytes=356792082

14/11/07 14:10:19 INFO mapred.JobClient: Total committed heap usage (bytes)=300578439168

14/11/07 14:10:19 INFO mapred.JobClient: CPU time spent (ms)=1851940

14/11/07 14:10:19 INFO mapred.JobClient: Map input bytes=2183910056

14/11/07 14:10:19 INFO mapred.JobClient: SPLIT\_RAW\_BYTES=167520

14/11/07 14:10:19 INFO mapred.JobClient: Combine input records=15472891

14/11/07 14:10:19 INFO mapred.JobClient: Reduce input records=14356

14/11/07 14:10:19 INFO mapred.JobClient: Reduce input groups=687

14/11/07 14:10:19 INFO mapred.JobClient: Combine output records=44278

14/11/07 14:10:19 INFO mapred.JobClient: Physical memory (bytes) snapshot=276171337728

14/11/07 14:10:19 INFO mapred.JobClient: Reduce output records=687

14/11/07 14:10:19 INFO mapred.JobClient: Virtual memory (bytes) snapshot=1407369281536

14/11/07 14:10:19 INFO mapred.JobClient: Map output records=15442969

**NAMENODE SUMMARY:**

2014-11-07 13:58:08,107 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.jar. blk\_-7927656548108369578\_191742

2014-11-07 13:58:08,271 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.jar from client DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:08,271 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.jar is closed by DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:08,273 INFO org.apache.hadoop.hdfs.server.namenode.FSNamesystem: Increasing replication for /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.jar. New replication is 10

2014-11-07 13:58:09,258 INFO org.apache.hadoop.hdfs.server.namenode.FSNamesystem: Increasing replication for /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.split. New replication is 10

2014-11-07 13:58:09,282 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.split. blk\_-3876728884617740360\_191743

2014-11-07 13:58:09,515 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.split from client DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,515 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.split is closed by DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,538 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.splitmetainfo. blk\_3198249499861502621\_191744

2014-11-07 13:58:09,640 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.splitmetainfo from client DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,640 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.splitmetainfo is closed by DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,701 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.xml. blk\_8956252517738162672\_191745

2014-11-07 13:58:09,859 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.xml from client DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,860 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /tmp/hadoop-hadoop/mapred/staging/nxh130330/.staging/job\_201411071216\_0029/job.xml is closed by DFSClient\_NONMAPREDUCE\_-2062617823\_1

2014-11-07 13:58:09,870 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /home/hadoop/mapred/job\_201411071216\_0029/job-info. blk\_-8673250275241853973\_191746

2014-11-07 13:58:09,945 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /home/hadoop/mapred/job\_201411071216\_0029/job-info from client DFSClient\_NONMAPREDUCE\_-851221293\_1

2014-11-07 13:58:09,945 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /home/hadoop/mapred/job\_201411071216\_0029/job-info is closed by DFSClient\_NONMAPREDUCE\_-851221293\_1

2014-11-07 13:58:09,948 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /home/hadoop/mapred/job\_201411071216\_0029/jobToken. blk\_1394108987693255109\_191747

2014-11-07 13:58:10,056 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /home/hadoop/mapred/job\_201411071216\_0029/jobToken from client DFSClient\_NONMAPREDUCE\_-851221293\_1

2014-11-07 13:58:10,056 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /home/hadoop/mapred/job\_201411071216\_0029/jobToken is closed by DFSClient\_NONMAPREDUCE\_-851221293\_1

2014-11-07 13:58:10,146 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_conf.xml. blk\_1369297507898407428\_191749

2014-11-07 13:58:10,250 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_conf.xml from client DFSClient\_NONMAPREDUCE\_-1962859981\_28

2014-11-07 13:58:10,250 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_conf.xml is closed by DFSClient\_NONMAPREDUCE\_-1962859981\_28

2014-11-07 14:02:09,945 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* allocateBlock: /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_1415390290057\_nxh130330\_RegionCrimeCount. blk\_5059901290502031922\_191749

2014-11-07 14:10:18,467 INFO org.apache.hadoop.hdfs.StateChange: Removing lease on /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_1415390290057\_nxh130330\_RegionCrimeCount from client DFSClient\_NONMAPREDUCE\_-1962859981\_28

2014-11-07 14:10:18,468 INFO org.apache.hadoop.hdfs.StateChange: DIR\* completeFile: /user/nxh130330/output\_files3/\_logs/history/job\_201411071216\_0029\_1415390290057\_nxh130330\_RegionCrimeCount is closed by DFSClient\_NONMAPREDUCE\_-1962859981\_28

**JOBTRACKER SUMMARY:**

2014-11-07 13:58:10,057 INFO org.apache.hadoop.mapred.JobTracker: jobToken generated and stored with users keys in /home/hadoop/mapred/job\_201411071216\_0029/jobToken

2014-11-07 13:58:10,132 INFO org.apache.hadoop.mapred.JobInProgress: job\_201411071216\_0029: nMaps=1341 nReduces=1 max=-1

2014-11-07 13:58:10,132 INFO org.apache.hadoop.mapred.JobTracker: Job job\_201411071216\_0029 added successfully for user 'nxh130330' to queue 'default'

2014-11-07 13:58:10,132 INFO org.apache.hadoop.mapred.AuditLogger: USER=nxh130330 IP=10.176.92.129 OPERATION=SUBMIT\_JOB TARGET=job\_201411071216\_0029 RESULT=SUCCESS

2014-11-07 13:58:10,132 INFO org.apache.hadoop.mapred.JobTracker: Initializing job\_201411071216\_0029

2014-11-07 13:58:10,133 INFO org.apache.hadoop.mapred.JobInProgress: Initializing job\_201411071216\_0029

2014-11-07 13:58:10,381 INFO org.apache.hadoop.mapred.JobInProgress: Input size for job job\_201411071216\_0029 = 2183910056. Number of splits = 1341

2014-11-07 13:58:10,459 INFO org.apache.hadoop.mapred.JobInProgress: job\_201411071216\_0029 LOCALITY\_WAIT\_FACTOR=1.0

2014-11-07 13:58:10,459 INFO org.apache.hadoop.mapred.JobInProgress: Job job\_201411071216\_0029 initialized successfully with 1341 map tasks and 1 reduce tasks.

2014-11-07 14:10:18,455 INFO org.apache.hadoop.mapred.JobInProgress: Job job\_201411071216\_0029 has completed successfully.

2014-11-07 14:10:18,455 INFO org.apache.hadoop.mapred.JobInProgress$JobSummary: jobId=job\_201411071216\_0029,submitTime=1415390290057,launchTime=1415390290459,firstMapTaskLaunchTime=1415390487416,firstReduceTaskLaunchTime=1415390536414,firstJobSetupTaskLaunchTime=1415390290460,firstJobCleanupTaskLaunchTime=1415390993882,finishTime=1415391018455,numMaps=1341,numSlotsPerMap=1,numReduces=1,numSlotsPerReduce=1,user=nxh130330,queue=default,status=SUCCEEDED,mapSlotSeconds=41861,reduceSlotsSeconds=474,clusterMapCapacity=96,clusterReduceCapacity=96,jobName=RegionCrimeCount

2014-11-07 14:10:18,471 INFO org.apache.hadoop.mapred.JobHistory: Moving file:/home/hadoop/logs/history/job\_201411071216\_0029\_1415390290057\_nxh130330\_RegionCrimeCount to file:/home/hadoop/logs/history/done/version-1/cshdfs\_1415384193928\_/2014/11/07/000000

2014-11-07 14:10:18,496 INFO org.apache.hadoop.mapred.JobHistory: Moving file:/home/hadoop/logs/history/job\_201411071216\_0029\_conf.xml to file:/home/hadoop/logs/history/done/version-1/cshdfs\_1415384193928\_/2014/11/07/000000