

Run successfully

启动MapReduce服务

查看进程，验证是否成功启动服务

```
syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ ./bin/start-mapred.sh
starting jobtracker, logging to /home/syx/hadoop-1.2.1/libexec/./logs/hadoop-sy
x-jobtracker-syx-OptiPlex-7050.out
localhost: starting tasktracker, logging to /home/syx/hadoop-1.2.1/libexec/./lo
gs/hadoop-syx-tasktracker-syx-OptiPlex-7050.out
syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ jps
10784 Jps
9904 SecondaryNameNode
9476 NameNode
10697 TaskTracker
10474 JobTracker
9690 DataNode
```

提交MapReduce应用程序

提交jar命令并查看运行结果 运行grep示例:

```
syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ ./bin/hadoop jar hadoop-examples-1.2.1.jar grep /user/syx/input/ /user/syx/output/grep
'dfs[a-z.]+ '
19/09/26 19:32:40 INFO util.NativeCodeLoader: Loaded the native-hadoop library
19/09/26 19:32:40 WARN snappy.LoadSnappy: Snappy native library not loaded
19/09/26 19:32:40 INFO mapred.FileInputFormat: Total input paths to process : 17
19/09/26 19:32:40 INFO mapred.JobClient: Running job: job_201909261834_0019
19/09/26 19:32:41 INFO mapred.JobClient: map 0% reduce 0%
19/09/26 19:32:43 INFO mapred.JobClient: map 11% reduce 0%
19/09/26 19:32:44 INFO mapred.JobClient: map 23% reduce 0%
19/09/26 19:32:45 INFO mapred.JobClient: map 35% reduce 0%
19/09/26 19:32:46 INFO mapred.JobClient: map 47% reduce 0%
19/09/26 19:32:47 INFO mapred.JobClient: map 58% reduce 0%
19/09/26 19:32:48 INFO mapred.JobClient: map 70% reduce 0%
19/09/26 19:32:49 INFO mapred.JobClient: map 82% reduce 0%
19/09/26 19:32:50 INFO mapred.JobClient: map 94% reduce 23%
19/09/26 19:32:51 INFO mapred.JobClient: map 100% reduce 23%
19/09/26 19:32:56 INFO mapred.JobClient: map 100% reduce 100%
19/09/26 19:32:56 INFO mapred.JobClient: Job complete: job_201909261834_0019
19/09/26 19:32:56 INFO mapred.JobClient: Counters: 30
19/09/26 19:32:56 INFO mapred.JobClient: Map-Reduce Framework
19/09/26 19:32:56 INFO mapred.JobClient: Spilled Records=10
19/09/26 19:32:56 INFO mapred.JobClient: Map output materialized bytes=242
19/09/26 19:32:56 INFO mapred.JobClient: Reduce input records=5
19/09/26 19:32:56 INFO mapred.JobClient: Virtual memory (bytes) snapshot=35139354624
19/09/26 19:32:56 INFO mapred.JobClient: Map input records=969
19/09/26 19:32:56 INFO mapred.JobClient: SPLIT_RAW_BYTES=1817
19/09/26 19:32:56 INFO mapred.JobClient: Map output bytes=130
19/09/26 19:32:56 INFO mapred.JobClient: Reduce shuffle bytes=242
19/09/26 19:32:56 INFO mapred.JobClient: Physical memory (bytes) snapshot=3662336000
19/09/26 19:32:56 INFO mapred.JobClient: Map input bytes=34596
19/09/26 19:32:56 INFO mapred.JobClient: Reduce input groups=5
19/09/26 19:32:56 INFO mapred.JobClient: Combine output records=5
19/09/26 19:32:56 INFO mapred.JobClient: Reduce output records=5
19/09/26 19:32:56 INFO mapred.JobClient: Map output records=5
19/09/26 19:32:56 INFO mapred.JobClient: Combine input records=5
19/09/26 19:32:56 INFO mapred.JobClient: CPU time spent (ms)=4590
19/09/26 19:32:56 INFO mapred.JobClient: Total committed heap usage (bytes)=3146252288
19/09/26 19:32:56 INFO mapred.JobClient: File Input Format Counters
19/09/26 19:32:56 INFO mapred.JobClient: Bytes Read=34596
19/09/26 19:32:56 INFO mapred.JobClient: FileSystemCounters
19/09/26 19:32:56 INFO mapred.JobClient: HDFS_BYTES_READ=36413
19/09/26 19:32:56 INFO mapred.JobClient: FILE_BYTES_WRITTEN=1003316
```

查看运行过程中的进程

运行 wordcount 示例，并且查看系统执行该任务过程中启动的进程：

```
syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ ./bin/hadoop jar hadoop-examples-1.2.1.jar wordcount /user/syx/input/test2.8G.text /user/syx/output/wordcount
19/09/26 19:44:39 INFO input.FileInputFormat: Total input paths to process : 1
19/09/26 19:44:39 INFO util.NativeCodeLoader: Loaded the native-hadoop library
19/09/26 19:44:39 WARN snappy.LoadSnappy: Snappy native library not loaded
19/09/26 19:44:39 INFO mapred.JobClient: Running job: job_201909261834_0021
19/09/26 19:44:40 INFO mapred.JobClient: map 0% reduce 0%
19/09/26 19:44:46 INFO mapred.JobClient: map 4% reduce 0%
19/09/26 19:44:50 INFO mapred.JobClient: map 6% reduce 0%
19/09/26 19:44:51 INFO mapred.JobClient: map 9% reduce 0%
19/09/26 19:44:54 INFO mapred.JobClient: map 11% reduce 0%
19/09/26 19:44:55 INFO mapred.JobClient: map 13% reduce 0%
19/09/26 19:45:01 INFO mapred.JobClient: map 15% reduce 0%
19/09/26 19:45:02 INFO mapred.JobClient: map 16% reduce 0%
19/09/26 19:45:03 INFO mapred.JobClient: map 16% reduce 4%
19/09/26 19:45:05 INFO mapred.JobClient: map 17% reduce 4%
19/09/26 19:45:10 INFO mapred.JobClient: map 18% reduce 4%
19/09/26 19:45:11 INFO mapred.JobClient: map 20% reduce 4%
19/09/26 19:45:12 INFO mapred.JobClient: map 23% reduce 4%
19/09/26 19:45:13 INFO mapred.JobClient: map 25% reduce 4%
19/09/26 19:45:15 INFO mapred.JobClient: map 25% reduce 8%
19/09/26 19:45:16 INFO mapred.JobClient: map 27% reduce 8%
19/09/26 19:45:20 INFO mapred.JobClient: map 29% reduce 8%
19/09/26 19:45:22 INFO mapred.JobClient: map 30% reduce 8%
19/09/26 19:45:23 INFO mapred.JobClient: map 32% reduce 8%
19/09/26 19:45:24 INFO mapred.JobClient: map 32% reduce 9%
19/09/26 19:45:30 INFO mapred.JobClient: map 34% reduce 9%
19/09/26 19:45:31 INFO mapred.JobClient: map 34% reduce 10%
19/09/26 19:45:32 INFO mapred.JobClient: map 37% reduce 10%
19/09/26 19:45:33 INFO mapred.JobClient: map 39% reduce 10%
19/09/26 19:45:34 INFO mapred.JobClient: map 39% reduce 12%
19/09/26 19:45:38 INFO mapred.JobClient: map 41% reduce 12%
19/09/26 19:45:39 INFO mapred.JobClient: map 43% reduce 12%
19/09/26 19:45:42 INFO mapred.JobClient: map 44% reduce 13%
19/09/26 19:45:43 INFO mapred.JobClient: map 46% reduce 13%
19/09/26 19:45:46 INFO mapred.JobClient: map 48% reduce 13%
19/09/26 19:45:48 INFO mapred.JobClient: map 51% reduce 16%
19/09/26 19:45:53 INFO mapred.JobClient: map 53% reduce 16%
19/09/26 19:45:55 INFO mapred.JobClient: map 54% reduce 17%
19/09/26 19:46:01 INFO mapred.JobClient: map 55% reduce 17%
19/09/26 19:46:04 INFO mapred.JobClient: map 56% reduce 17%
```

```

9/09/26 19:48:55 INFO mapred.JobClient: map 100% reduce 95%
9/09/26 19:48:58 INFO mapred.JobClient: map 100% reduce 96%
9/09/26 19:49:01 INFO mapred.JobClient: map 100% reduce 98%
9/09/26 19:49:05 INFO mapred.JobClient: map 100% reduce 99%
9/09/26 19:49:06 INFO mapred.JobClient: map 100% reduce 100%
9/09/26 19:49:06 INFO mapred.JobClient: Job complete: job_201909261834_0021
9/09/26 19:49:06 INFO mapred.JobClient: Counters: 29
9/09/26 19:49:06 INFO mapred.JobClient:   Map-Reduce Framework
9/09/26 19:49:06 INFO mapred.JobClient:     Spilled Records=51673334
9/09/26 19:49:06 INFO mapred.JobClient:     Map output materialized bytes=2954567651
9/09/26 19:49:06 INFO mapred.JobClient:     Reduce input records=13448299
9/09/26 19:49:06 INFO mapred.JobClient:     Virtual memory (bytes) snapshot=86031462400
9/09/26 19:49:06 INFO mapred.JobClient:     Map input records=5011909
9/09/26 19:49:06 INFO mapred.JobClient:     SPLIT_RAW_BYTES=4945
9/09/26 19:49:06 INFO mapred.JobClient:     Map output bytes=2938284221
9/09/26 19:49:06 INFO mapred.JobClient:     Reduce shuffle bytes=2954567651
9/09/26 19:49:06 INFO mapred.JobClient:     Physical memory (bytes) snapshot=10760355840
9/09/26 19:49:06 INFO mapred.JobClient:     Reduce input groups=10105942
9/09/26 19:49:06 INFO mapred.JobClient:     Combine output records=13448299
9/09/26 19:49:06 INFO mapred.JobClient:     Reduce output records=10105942
9/09/26 19:49:06 INFO mapred.JobClient:     Map output records=15035725
9/09/26 19:49:06 INFO mapred.JobClient:     Combine input records=15035725
9/09/26 19:49:06 INFO mapred.JobClient:     CPU time spent (ms)=246080
9/09/26 19:49:06 INFO mapred.JobClient:     Total committed heap usage (bytes)=8610906112
9/09/26 19:49:06 INFO mapred.JobClient: File Input Format Counters
9/09/26 19:49:06 INFO mapred.JobClient:   Bytes Read=2868289536
9/09/26 19:49:06 INFO mapred.JobClient: FileSystemCounters
9/09/26 19:49:06 INFO mapred.JobClient:   HDFS_BYTES_READ=2868294481
9/09/26 19:49:06 INFO mapred.JobClient:   FILE_BYTES_WRITTEN=11354922200
9/09/26 19:49:06 INFO mapred.JobClient:   FILE_BYTES_READ=8397904355
9/09/26 19:49:06 INFO mapred.JobClient:   HDFS_BYTES_WRITTEN=2844000718
9/09/26 19:49:06 INFO mapred.JobClient: Job Counters
9/09/26 19:49:06 INFO mapred.JobClient:   Launched map tasks=43
9/09/26 19:49:06 INFO mapred.JobClient:   Launched reduce tasks=1
9/09/26 19:49:06 INFO mapred.JobClient:   SLOTS_MILLIS_REDUCES=256010
9/09/26 19:49:06 INFO mapred.JobClient:   Total time spent by all reduces waiting after reserving slots (ms)=0
9/09/26 19:49:06 INFO mapred.JobClient:   SLOTS_MILLIS_MAPS=320169
9/09/26 19:49:06 INFO mapred.JobClient:   Total time spent by all maps waiting after reserving slots (ms)=0
9/09/26 19:49:06 INFO mapred.JobClient:   Data-local map tasks=43
9/09/26 19:49:06 INFO mapred.JobClient: File Output Format Counters
9/09/26 19:49:06 INFO mapred.JobClient:   Bytes Written=2844000718
syx@syx-OptiPlex-7050:~/hadoop-1.2.1$

```

jps:

```

syx@syx-OptiPlex-7050:~$ jps
9904 SecondaryNameNode
24963 Child
9476 NameNode
10697 TaskTracker
10474 JobTracker
27626 Jps
9690 DataNode
24574 RunJar
syx@syx-OptiPlex-7050:~$

```

启动MapReduce服务

- 启动YARN命令
- 开启历史服务器
- 启动HDFS服务

```
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ ./sbin/start-yarn.sh      # 启动YARN
starting yarn daemons
starting resourcemanager, logging to /home/syx/hadoop-2.9.2/logs/yarn-syx-resour
cemanager-syx-OptiPlex-7050.out
localhost: starting nodemanager, logging to /home/syx/hadoop-2.9.2/logs/yarn-syx
-nodemanager-syx-OptiPlex-7050.out
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ ./sbin/mr-jobhistory-daemon.sh start histo
ryserver
starting historyserver, logging to /home/syx/hadoop-2.9.2/logs/mapred-syx-histor
yserver-syx-OptiPlex-7050.out
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ ./sbin/start-dfs.sh
Starting namenodes on [localhost]
localhost: starting namenode, logging to /home/syx/hadoop-2.9.2/logs/hadoop-syx-
namenode-syx-OptiPlex-7050.out
localhost: starting datanode, logging to /home/syx/hadoop-2.9.2/logs/hadoop-syx-
datanode-syx-OptiPlex-7050.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /home/syx/hadoop-2.9.2/logs/hado
op-syx-secondarynamenode-syx-OptiPlex-7050.out
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ jps
8304 NodeManager
8932 DataNode
7942 ResourceManager
9322 Jps
8698 NameNode
8476 JobHistoryServer
9181 SecondaryNameNode
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$
```

运行MapReduce应用程序

- 提交jar命令并查看运行结果 运行grep示例, 结果如下:


```
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ ./bin/yarn jar ./share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.2.jar grep /user/syx/input/ /user/syx/output/grep 'dfs[a-z.]+'
19/09/26 20:33:38 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
19/09/26 20:33:38 INFO input.FileInputFormat: Total input files to process : 0
19/09/26 20:33:38 INFO mapreduce.JobSubmitter: number of splits:0
19/09/26 20:33:38 INFO Configuration.deprecation: yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.system-metrics-publisher.enabled
19/09/26 20:33:38 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1569500919351_0002
19/09/26 20:33:39 INFO impl.YarnClientImpl: Submitted application application_1569500919351_0002
19/09/26 20:33:39 INFO mapreduce.Job: The url to track the job: http://syx-OptiPlex-7050:8088/proxy/application_1569500919351_0002/
19/09/26 20:33:39 INFO mapreduce.Job: Running job: job_1569500919351_0002
19/09/26 20:33:44 INFO mapreduce.Job: Job job_1569500919351_0002 running in uber mode : false
19/09/26 20:33:44 INFO mapreduce.Job:  map 0% reduce 0%
19/09/26 20:33:49 INFO mapreduce.Job:  map 0% reduce 100%
19/09/26 20:33:49 INFO mapreduce.Job: Job job_1569500919351_0002 completed successfully
19/09/26 20:33:49 INFO mapreduce.Job: Counters: 38
    File System Counters
        FILE: Number of bytes read=0
        FILE: Number of bytes written=198785
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=0
        HDFS: Number of bytes written=86
        HDFS: Number of read operations=3
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=2
    Job Counters
        Launched reduce tasks=1
        Total time spent by all maps in occupied slots (ms)=0
        Total time spent by all reduces in occupied slots (ms)=1459
        Total time spent by all reduce tasks (ms)=1459
        Total vcore-milliseconds taken by all reduce tasks=1459
        Total megabyte-milliseconds taken by all reduce tasks=1494016
```

```
Total time spent by all reduce tasks (ms)=1459
Total vcore-milliseconds taken by all reduce tasks=1459
Total megabyte-milliseconds taken by all reduce tasks=1494016
Map-Reduce Framework
  Combine input records=0
  Combine output records=0
  Reduce input groups=0
  Reduce shuffle bytes=0
  Reduce input records=0
  Reduce output records=0
  Spilled Records=0
  Shuffled Maps =0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=34
  CPU time spent (ms)=280
  Physical memory (bytes) snapshot=201277440
  Virtual memory (bytes) snapshot=2015866880
  Total committed heap usage (bytes)=124256256
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Output Format Counters
  Bytes Written=86
19/09/26 20:33:49 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
19/09/26 20:33:49 INFO input.FileInputFormat: Total input files to process : 1
19/09/26 20:33:49 INFO mapreduce.JobSubmitter: number of splits:1
19/09/26 20:33:50 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1569500919351_0003
19/09/26 20:33:50 INFO impl.YarnClientImpl: Submitted application application_1569500919351_0003
19/09/26 20:33:50 INFO mapreduce.Job: The url to track the job: http://syx-OptiPlex-7050:8088/proxy/application_1569500919351_0003/
19/09/26 20:33:50 INFO mapreduce.Job: Running job: job_1569500919351_0003
19/09/26 20:33:59 INFO mapreduce.Job: Job job_1569500919351_0003 running in uber mode : false
19/09/26 20:33:59 INFO mapreduce.Job:  map 0% reduce 0%
19/09/26 20:34:03 INFO mapreduce.Job:  map 100% reduce 0%
```

```
Launched reduce tasks=1
Data-local map tasks=1
Total time spent by all maps in occupied slots (ms)=1347
Total time spent by all reduces in occupied slots (ms)=1472
Total time spent by all map tasks (ms)=1347
Total time spent by all reduce tasks (ms)=1472
Total vcore-milliseconds taken by all map tasks=1347
Total vcore-milliseconds taken by all reduce tasks=1472
Total megabyte-milliseconds taken by all map tasks=1379328
Total megabyte-milliseconds taken by all reduce tasks=1507328
Map-Reduce Framework
  Map input records=0
  Map output records=0
  Map output bytes=0
  Map output materialized bytes=6
  Input split bytes=128
  Combine input records=0
  Combine output records=0
  Reduce input groups=0
  Reduce shuffle bytes=6
  Reduce input records=0
  Reduce output records=0
  Spilled Records=0
  Shuffled Maps =1
  Failed Shuffles=0
  Merged Map outputs=1
  GC time elapsed (ms)=85
  CPU time spent (ms)=670
  Physical memory (bytes) snapshot=512491520
  Virtual memory (bytes) snapshot=4024590336
  Total committed heap usage (bytes)=330301440
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Input Format Counters
  Bytes Read=86
File Output Format Counters
  Bytes Written=0
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$
```

运行 wordcount 示例

```
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$ ./bin/yarn jar ./share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.2.jar wordcount /user/syx/input/test2.8G.text /user/syx/output/wordcount
19/09/26 20:40:04 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
19/09/26 20:40:04 INFO input.FileInputFormat: Total input files to process : 1
19/09/26 20:40:04 INFO mapreduce.JobSubmitter: number of splits:22
19/09/26 20:40:05 INFO Configuration.deprecation: yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.system-metrics-publisher.enabled
19/09/26 20:40:05 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1569500919351_0005
19/09/26 20:40:05 INFO impl.YarnClientImpl: Submitted application application_1569500919351_0005
19/09/26 20:40:05 INFO mapreduce.Job: The url to track the job: http://syx-OptiPlex-7050:8088/proxy/application_1569500919351_0005/
19/09/26 20:40:05 INFO mapreduce.Job: Running job: job_1569500919351_0005
19/09/26 20:40:09 INFO mapreduce.Job: Job job_1569500919351_0005 running in uber mode : false
19/09/26 20:40:09 INFO mapreduce.Job: map 0% reduce 0%
19/09/26 20:40:26 INFO mapreduce.Job: map 2% reduce 0%
19/09/26 20:40:27 INFO mapreduce.Job: map 10% reduce 0%
19/09/26 20:40:32 INFO mapreduce.Job: map 11% reduce 0%
19/09/26 20:40:33 INFO mapreduce.Job: map 14% reduce 0%
19/09/26 20:40:39 INFO mapreduce.Job: map 17% reduce 0%
19/09/26 20:40:45 INFO mapreduce.Job: map 18% reduce 0%
19/09/26 20:40:51 INFO mapreduce.Job: map 20% reduce 0%
19/09/26 20:40:57 INFO mapreduce.Job: map 22% reduce 0%
19/09/26 20:41:03 INFO mapreduce.Job: map 23% reduce 0%
19/09/26 20:41:09 INFO mapreduce.Job: map 25% reduce 0%
19/09/26 20:41:15 INFO mapreduce.Job: map 26% reduce 0%
19/09/26 20:41:20 INFO mapreduce.Job: map 27% reduce 0%
19/09/26 20:41:50 INFO mapreduce.Job: map 36% reduce 0%
19/09/26 20:41:56 INFO mapreduce.Job: map 38% reduce 0%
19/09/26 20:42:02 INFO mapreduce.Job: map 41% reduce 0%
19/09/26 20:42:08 INFO mapreduce.Job: map 43% reduce 0%
19/09/26 20:42:14 INFO mapreduce.Job: map 44% reduce 0%
19/09/26 20:42:21 INFO mapreduce.Job: map 45% reduce 0%
19/09/26 20:42:26 INFO mapreduce.Job: map 46% reduce 0%
19/09/26 20:42:27 INFO mapreduce.Job: map 47% reduce 0%
19/09/26 20:42:33 INFO mapreduce.Job: map 48% reduce 2%
```



```

Launched map tasks=23
Launched reduce tasks=1
Data-local map tasks=23
Total time spent by all maps in occupied slots (ms)=1626180
Total time spent by all reduces in occupied slots (ms)=406368
Total time spent by all map tasks (ms)=1626180
Total time spent by all reduce tasks (ms)=406368
Total vcore-milliseconds taken by all map tasks=1626180
Total vcore-milliseconds taken by all reduce tasks=406368
Total megabyte-milliseconds taken by all map tasks=1665208320
Total megabyte-milliseconds taken by all reduce tasks=416120832
Map-Reduce Framework
  Map input records=5011909
  Map output records=15035725
  Map output bytes=2938284221
  Map output materialized bytes=2944210375
  Input split bytes=2530
  Combine input records=15035725
  Combine output records=12757848
  Reduce input groups=10105942
  Reduce shuffle bytes=2944210375
  Reduce input records=12757848
  Reduce output records=10105942
  Spilled Records=46026946
  Shuffled Maps =22
  Failed Shuffles=0
  Merged Map outputs=22
  GC time elapsed (ms)=8128
  CPU time spent (ms)=274170
  Physical memory (bytes) snapshot=6686240768
  Virtual memory (bytes) snapshot=46184607744
  Total committed heap usage (bytes)=4518313984
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Input Format Counters
  Bytes Read=2868203520
File Output Format Counters
  Bytes Written=2844000718
syx@syx-OptiPlex-7050:~/hadoop-2.9.2$

```

Mistakes

1. FS

```

syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ ./bin/hadoop fs -put ./conf /user/syx/input/
put: Target /user/syx/input/conf is a directory

```

solu:

```

syx@syx-OptiPlex-7050:~/hadoop-1.2.1$ ./bin/hadoop fs -put ./conf /user/syx/input/11

```

hadoop's FS is different from linux's FS. I have tried

```
sudo rm -rf /user/syx/input
```

but this "input" is not the one in the hadoop FS.

