作业 2

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1、
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.*;
import java.io.*;
class A {
    public static boolean rm(Configuration conf, String remoteFilePath) throws IOException {
       FileSystem fs = FileSystem.get(conf);
       Path remotePath = new Path(remoteFilePath);
       boolean result = fs.delete(remotePath, false);
       fs.close();
       return result;
    public static boolean mv(Configuration conf, String remoteFilePath, String remoteToFilePath)
         throws IOException {
       FileSystem fs = FileSystem.get(conf);
       Path srcPath = new Path(remoteFilePath);
       Path dstPath = new Path(remoteToFilePath);
       boolean result = fs.rename(srcPath, dstPath);
       fs.close();
       return result;
}
public class B {
     public static void main(String[] args) {
           Configuration conf = new Configuration(); conf.set("fs.default.name","hdfs://localhost:9000");
       String remoteFilePath = "/user/hadoop/text.txt";
       try {
             if ( A.rm(conf, remoteFilePath) )
                { System.out.println("文件删除: " + remoteFilePath); }
             else { System.out.println("操作失败(文件不存在或删除失败)"); }
       }
       catch (Exception e)
            { e.printStackTrace(); }
     String remoteFilePath1 = "/user/hadoop/text1.txt";
       String remoteToFilePath1 = "/user/hadoop/new.txt";
       try {
           if ( A.mv(conf, remoteFilePath1, remoteToFilePath1) ) {
             System.out.println("将文件" +remoteFilePath1+"移动到" + remoteToFilePath1);
           }
           else
           { System.out.println("操作失败(源文件不存在或移动失败)"); }
       }
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catch (Exception e)
            { e.printStackTrace(); }
    }
}
2、
    import java.io.IOException;
  import org.apache.hadoop.conf.Configuration;
  import org.apache.hadoop.fs.Path;
  import org.apache.hadoop.io.IntWritable;
  import org.apache.hadoop.io.Text;
  import org.apache.hadoop.mapreduce.Job;
  import org.apache.hadoop.mapreduce.Mapper;
  import org.apache.hadoop.mapreduce.Reducer;
  import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
  import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
  public class MaxValue {
     private static int mapnum=0;
     private static int reducenum=0;
     public static void main(String[] args) throws Exception {
       Configuration conf = new Configuration();
       conf.set("fs.defaultFS", "hdfs://localhost:9000");
       String[] otherArgs = new String[]{"input","output"};
       if(otherArgs.length < 2) {
         System.err.println("Usage: wordcount <in> [<in>...] <out>");
         System.exit(2);
       }
       Job job = Job.getInstance(conf, "MaxValue");
       job.setJarByClass(MaxValue.class);
       job.setMapperClass(Map.class);
       job.setReducerClass(Reduce.class);
       job.setMapOutputKeyClass(IntWritable.class);
       job.setMapOutputValueClass(IntWritable.class);
       job.setOutputKeyClass(Text.class);
       job.setOutputValueClass(IntWritable.class);
       FileInputFormat.addInputPath(job, new Path(otherArgs[0]));
       FileOutputFormat.setOutputPath(job, new Path(otherArgs[1]));
       System.exit(job.waitForCompletion(true)? 0:1);
     public static class Map extends Mapper<Object, Text, IntWritable, IntWritable> {
       private IntWritable data = new IntWritable();
               public void map(Object key, Text value, Context context) throws IOException,
                           InterruptedException
           {
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String t=value.toString();
      data.set(Integer.parseInt(t));
      context.write(data, new IntWritable(1));
      mapnum++;
   }
 }
 public static class Reduce extends Reducer<IntWritable, IntWritable,Text,IntWritable>{
          public void reduce(IntWritable key, Iterable<IntWritable> values, Context context) throws
                    IOException, InterruptedException
        {
      for(IntWritable val:values)
       reducenum++;
      }
      if(reducenum==mapnum) context.write(new Text("最大值: "),key);
   }
 }
}
```