import java.io.IOException;

import java.util.Date;

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.Mapper.Context;

import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;

import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

import org.apache.hadoop.mapreduce.Counter;

import org.apache.hadoop.mapreduce.Counters;

import org.apache.hadoop.mapreduce.Job;

import org.apache.hadoop.mapreduce.Mapper;

public class MyCounter {

public static enum BLANK\_COUNTER{

BLANK\_LINE

};

public static class MyMapper extends Mapper<LongWritable,Text, Text, Text> {

private Text out = new Text();

protected void map(LongWritable key, Text value, Context context)

throws java.io.IOException, InterruptedException {

String line = value.toString();

if(line.isEmpty()){

context.getCounter(BLANK\_COUNTER.BLANK\_LINE).increment(1);

}

out.set("success");

context.write(out,out);

}

}

public static void main(String[] args)

throws IOException, ClassNotFoundException, InterruptedException {

Job job = new Job();

job.setJarByClass(MyCounter.class);

job.setJobName("CounterTest");

job.setNumReduceTasks(0);

job.setMapperClass(MyMapper.class);

job.setMapOutputKeyClass(Text.class);

job.setMapOutputValueClass(Text.class);

FileInputFormat.addInputPath(job, new Path(args[0]));

FileOutputFormat.setOutputPath(job, new Path(args[1]));

job.waitForCompletion(true);

Counters counters = job.getCounters();

Counter c1 = counters.findCounter(BLANK\_COUNTER.BLANK\_LINE);

System.out.println(c1.getDisplayName()+ " : " + c1.getValue());

}

}