**实验15: Giraph**

部署

本地部署Hadoop 2.5.1并启动

http://archive.apache.org/dist/hadoop/core/hadoop-2.5.1/hadoop-2.5.1.tar.gz

下载Giraph

cd /usr/local/

sudo git clone https://github.com/apache/giraph.git

sudo chown -R hadoop:hadoop giraph

编译

cd giraph

mvn -Phadoop\_2 -Dhadoop.version=2.5.1 –DskipTests clean package

执行最短路径程序

1. 输入

创建/tmp/tiny\_graph.txt, 输入:

[0,0,[[1,1],[3,3]]]

[1,0,[[0,1],[2,2],[3,1]]]

[2,0,[[1,2],[4,4]]]

[3,0,[[0,3],[1,1],[4,4]]]

[4,0,[[3,4],[2,4]]]

$HADOOP\_HOME/bin/hadoop dfs -copyFromLocal /tmp/tiny\_graph.txt /tiny\_graph.txt

提交任务

$HADOOP\_HOME/bin/hadoop jar /usr/local/giraph-examples/target/giraph-examples-1.3.0-SNAPSHOT-for-hadoop-1.2.1-jar-with-dependencies.jar org.apache.giraph.GiraphRunner org.apache.giraph.examples.SimpleShortestPathsComputation -vif org.apache.giraph.io.formats.JsonLongDoubleFloatDoubleVertexInputFormat -vip /tmp/tiny\_graph.txt -vof org.apache.giraph.io.formats.IdWithValueTextOutputFormat -op /shortestpaths -w 1 -ca giraph.SplitMasterWorker=false

提交任务

$HADOOP\_HOME/bin/hadoop dfs -cat /shortestpaths/p\* | less