

Hama Installation

Big Data Programming Assignment 2

Requirements

- Ubuntu 12.04
- Sun Java JDK 1.6.x or higher version
- hadoop-1.0.x or higher version

Installation

- We will use hama version 0.6.3
 - Please download it from <http://hama.apache.org/downloads.html>
- The setup is very similar to hadoop
 - Here we are using pseudo distributed mode
 - Example configuration of hama-site.xml can be download from [here](#).
- set JAVA_HOME to appropriate value in conf/hama-env.sh

Running Examples

- First we need to start hadoop, please refer to the previous homework slides.
- Starting hama:
 - run bin/start-bspd.sh
- Run the pi example
 - bin/hama jar hama-examples-0.6.3.jar pi
 - You should see the following text if success

```
13/10/19 11:43:38 INFO bsp.BSPJobClient: Running job: job_201310191143_0001
13/10/19 11:43:41 INFO bsp.BSPJobClient: Current supersteps number: 0
13/10/19 11:43:50 INFO bsp.BSPJobClient: Current supersteps number: 1
13/10/19 11:43:50 INFO bsp.BSPJobClient: The total number of supersteps: 1
13/10/19 11:43:50 INFO bsp.BSPJobClient: Counters: 6
13/10/19 11:43:50 INFO bsp.BSPJobClient: org.apache.hama.bsp.JobInProgress$Job
Counter
13/10/19 11:43:50 INFO bsp.BSPJobClient: SUPERSTEPS=1
13/10/19 11:43:50 INFO bsp.BSPJobClient: LAUNCHED_TASKS=3
13/10/19 11:43:50 INFO bsp.BSPJobClient: org.apache.hama.bsp.BSPPeerImpl$PeerC
ounter
13/10/19 11:43:50 INFO bsp.BSPJobClient: SUPERSTEP_SUM=3
13/10/19 11:43:50 INFO bsp.BSPJobClient: TIME_IN_SYNC_MS=92
13/10/19 11:43:50 INFO bsp.BSPJobClient: TOTAL_MESSAGES_SENT=3
13/10/19 11:43:50 INFO bsp.BSPJobClient: TOTAL_MESSAGES_RECEIVED=3
Estimated value of PI is 3.1378666666666666
Job Finished in 12.499 seconds
```

Compiling & Run

- Compile

```
$ mkdir output  
$ javac -classpath hadoop-core-*.jar路徑:hama-core-*.  
jar路徑:hama-graph-*.jar路徑 -d output example.java  
$ jar -zcf example.jar -C output
```

- Run

```
$ hama jar example.jar <arguments>
```

Reference

- Apache HAMA getting start guide: http://hama.apache.org/getting_started_with_hama.html