Command interface

Master to worker

1. StartTask

messageType:command

messageID: start

task: startingTask

1. killTask

messageType:command

messageID: KILL

taskID

3. killJob

messageType:command

messageID: KILL

jobID

1. shutDown

messageType: command

messageID: SHUTDOWN

1. assignId

mesageType: command

messageID:ASSIGNID

workerID

Worker to Master

1. Start response

messageType: response

messageID: START

taskId

Result : SUCCESS|FAIL(SUCCESS:0,FAIL:-1)

CAUSE: STRING

1. killTaskRsp

messageType: response

messiageID: killTaskRsp

int taskID

Result:

Cause:

1. killJobRsp

messageType: response

messageID: killJobRsp

int jobId

Result

Cause

1. heartBeatInd

messageType: Indication

MsgId: HEARTBEATIND

TaskTrackerStatus: taskStatusReport

2. Task interface

Task class{

Jobid,

Jobconf

taskId

taskType: mapper or reducer

}

mapTask and reduceTask will implement this interface. The mapTask and reduceTask will send to taskTracker in the task action message.

3. TaskTrackerStatus

workerId;

   ArrayList<TaskStatus]]>(taskReports);

   maxMapTasks;

   maxReduceTasks