1. Compilation

\$ make

gcc -Wall -g -c proto.c

gcc -Wall -g -c cmd.c

gcc -Wall -g rex.c proto.o cmd.o -o rex

gcc -Wall -g rexd.c proto.o cmd.o -o rexd -pthread

## 2. Description

System follows the specifications described in assignment specification, the system specifies one service per host (2 computers to run 2 rexd )or you can test with one rexd and have many clients. The system has the following additions:

1) To start rexd as a slave, we use first parameter of program to tell who is the leader:

\$ ./rexd 10.0.3.1 -- this uses server 10.0.3.1 as the leader

Electing as leader: 10.0.3.1

2) To start rexd as a master:

\$./rexd

Acting as Rexd leader

3) Client uses localhost, as default rexd leader, if you want to change it:

\$ ./rex -I 10.0.3.2 status

Rexd uses processes for all run/submit commands. For the rest (chdir, status, copy, kill) we use Pthreads.

There are 2 internal server to server commands:

a) getid - used to get a job ID from leader

b) state - used to inform leader, a job changed its state. For example from SCHEDULED -> RUNNING

Output of batch jobs is saved with the following names - job-ID.err and job-ID.out.

## Operating Systems & Systems Programming 2