Running

For Linux:

```
$ pyro4-ns &
$ python frontend.py &
# repeat as many times as you like
$ python replica.py &

# to run the client
$ python client.py

# to run the tests (no output = pass)
$ tools/test_all
```

To remove a replica, just kill the job. (e.g. kill %3).

Features

Users can add/update, delete, get min/max/avg ratings for specific movies, and read (their own or other users') ratings. All operations are causally ordered using vector clocks. Thus, if a user creates a rating from the same session and reads a rating (from the same session) then he would receive ratings with his updates applied.

At any time, all replicas are causally consistent. Given enough time all replicas will converge to a common (still causally consistent) global order of events (i.e. all replicas will apply *all* concurrent updates in the same order).

The system supports any number of replicas. New replicas can join the cluster at any time. Over time, all replicas receive all updates and the system becomes tolerant to f failures (out of f+1 replicas).