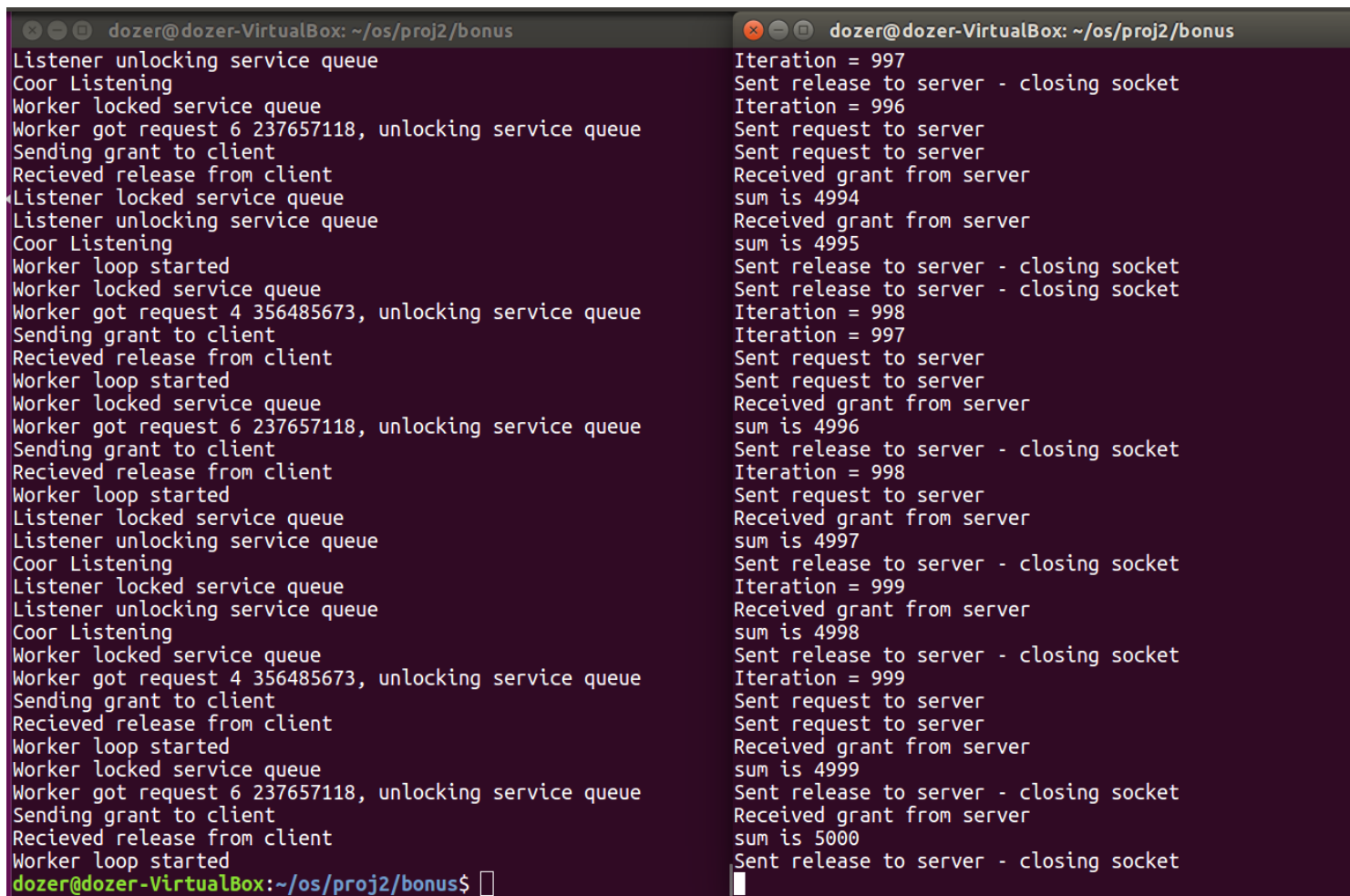


Coordinator-based Distributed Locking



```

dozer@dozer-VirtualBox: ~/os/proj2/bonus
Listener unlocking service queue
Coor Listening
Worker locked service queue
Worker got request 6 237657118, unlocking service queue
Sending grant to client
Recieved release from client
Listener locked service queue
Listener unlocking service queue
Coor Listening
Worker loop started
Worker locked service queue
Worker got request 4 356485673, unlocking service queue
Sending grant to client
Recieved release from client
Worker loop started
Worker locked service queue
Worker got request 6 237657118, unlocking service queue
Sending grant to client
Recieved release from client
Worker loop started
Listener locked service queue
Listener unlocking service queue
Coor Listening
Listener locked service queue
Listener unlocking service queue
Coor Listening
Worker locked service queue
Worker got request 4 356485673, unlocking service queue
Sending grant to client
Recieved release from client
Worker loop started
Worker locked service queue
Worker got request 6 237657118, unlocking service queue
Sending grant to client
Recieved release from client
Worker loop started
dozer@dozer-VirtualBox:~/os/proj2/bonus$

dozer@dozer-VirtualBox: ~/os/proj2/bonus
Iteration = 997
Sent release to server - closing socket
Iteration = 996
Sent request to server
Sent request to server
Received grant from server
sum is 4994
Received grant from server
sum is 4995
Sent release to server - closing socket
Sent release to server - closing socket
Iteration = 998
Iteration = 997
Sent request to server
Sent request to server
Received grant from server
sum is 4996
Sent release to server - closing socket
Iteration = 998
Sent request to server
Received grant from server
sum is 4997
Sent release to server - closing socket
Iteration = 999
Received grant from server
sum is 4998
Sent release to server - closing socket
Iteration = 999
Sent request to server
Sent request to server
Received grant from server
sum is 4999
Sent release to server - closing socket
Received grant from server
sum is 5000
Sent release to server - closing socket

```

All incoming client requests are put in a service queue by the server. The clients on the right terminal are concurrently sending requests to the server. The server on the left terminal responds with sequential access grants. The server waits until the granted client replies with a release, after which the server pops another request from the service queue and grants another client access to the shared file.