

LOCK MANAGEMENT METHOD IN CLUSTER, LOCK SERVER, AND CLIENT

ABSTRACT

The present invention provides a lock management solution in a cluster, where the cluster
5 includes a client and a lock server, the lock server includes an interface card and a memory, the
memory stores a read lock request queue recording an identifier of a client that waits for a read lock
or obtains a read lock, the memory further stores a write lock request queue recording an identifier
of a client that waits for a write lock or obtains a write lock, and the memory further includes a read
lock allocation count and a write lock allocation identifier, where the read lock allocation count is
10 used to record an allocated read lock, and the write lock allocation identifier is used to indicate
whether a write lock has been allocated. The client communicates with the interface card of the lock
server by using the RDMA protocol to perform a lock operation.

FIGURE 2