Operation Write
If book exists, rewrite price

Data (Book) → Name
Price
Clean / Dirty

Result of
Operation Read
(getBookPrice):
price

Operation Write
"book", price
timeout (if necessary)

Result of Operation Read: price / Not in Stock

Result of Operation Data-status:
#) "book" - clean/dirty, ...

Result of
Operation Data-status
(getBookStatus):
clean/dirty

(If book exists)
Operation Read:
getBookPrice

Result of Operation List-books:
#) "book" = price, ...

Operation Data-status:
getBookStatus

Result of Operation List-chain:
Id (head) -> Id -> ... -> Id -> Id (tail)

Connection to
other nodes

Result of
Operation
Timeout

Timeout

Id (includes Node-Id)

Node information
(ip, port)

node_list.txt → Node(s)

Operation Local-store-ps k -> k arrows

Process(es)

removed?

Modified by Operations
Remove-head
Restore-head

Is head?
Is tail?

Terminal

Perform operations

Operation Create-chain

Operation List-books

Operation Read "book"

Operation List-chain

Operation Timeout time

Operation Data-status

Operation Restore-head

Operation Remove-head

Operation Timeout time

Operation Remove-head
Operation Restore-head

Result of
Operation
Create-chain

Successor
Predecessor

miro