

DASCALE Client

Requested Data



1 Checking the current active instance

Master Instance

Active Instance

Instance Calculator

2 Calculating Participated Instance

Instance Ordering



3 Transferring Instance ordering information

LCP Controller

DRAM Buffer



4 Flushing Requested Data

LCP 1



Requested Data Flush

LCP 2



Requested Data Flush

LCP N



Requested Data Flush

5 Processing Local checkpoint

LCP Status Manager

Wait Slave 1

Local Checkpoint 1 Flush

LCP Status Manager

Wait Slave 2

Local Checkpoint 2 Flush

LCP Status Manager

Wait Slave N

Local Checkpoint N Flush

6 Transferring LCP flag(Start) to Slave Instance

Slave Instance 1

Slave Instance N

LCP Executor

LCP 1



Requested Data Flush

LCP Status Manager

Transfer Master

LCP Executor

LCP N



Requested Data Flush

LCP Status Manager

Transfer Master

7 Transferring LCP flag(End) to Master Instance