LACPP

Distributed Database

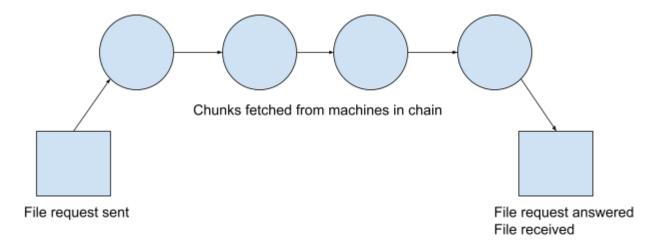
Linked Structure

Using linked refs to connect diff machines containing different files All machines contain "Start Nodes" for all files

Downside: Slow

Upside: Redundant, Private, "Atomic" (as order exists in read/edit)

Has to impl TimeOut for slow/failed chunks



Direct Transactions (BROADCAST) (We should go with this)

Using a single key to call all machines, those who contain the key in their FileStore return their respective chunk, other machines ignore/ignored

Downside: No order, order data has to be implemented *(KEY, (ORDER, CHUNK))*Not private (everyone listens for any files requested)

Upside: Fast

Has to impl TimeOut for slow/failed chunks

OPERATIONS:

DELETE: If no response from machine, notify user that operation is unable to be performed (Ask if user wants to HARDDELETE?)

- 1. Delete sequence: First fetch the file and machines that returned the chunks,
 - a. If FAIL notify user that operation is unable to be performed,
 - b. ELSE try to delete from all machines, if delete has failed on one or more machines ADD the file back to machines available

alt: HARDDELETE: If no response from machine, drop machine, drop file from other machines since chunk missing

ADD: If no response from machine, drop machine, add file to other machine that is available

VIEW: if no response from machine, drop machine, return error fetching file

COUNT: get keys from all machines, remove duplicates, count elements. In case of no response, notify user of missing chunk(s)