

Issues in Locking Chapters

Dave Noveck

Overview

- Revising Locking Chapter
 - Two separate chapters
 - General state management
 - Opens and byte-range locking
- Pretty much done, will submit Tuesday
- But a few issues discovered
 - Need to resolve them

State reclaim and pers. sessions

- Persistent sessions have persistent clientid
 - Causes difficulties
 - No sharp delineation of reclaim phase
 - Issue with open-upgrade on reclaim
- Choices
 - Leave as is
 - And do something about open-upgrade on reclaim
 - Force new session
 - New client id
 - Plus way to bind new clientid to existing session

Layouts and stateids

- Not major but need to resolve
- State management chapter describes types of stateids
 - Currently assuming layouts will have stateids
 - Will need to update if they don't

Layouts and Grace

- Prohibition of LAYOUTGET during grace
 - Exception for persistent layout segments
 - Unclear exactly what is meant
 - Unclear about purpose
 - Does not address significant issue
 - IO through data server vs. restrictions on READ and WRITE during grace period
 - Must not allow way around these restrictions