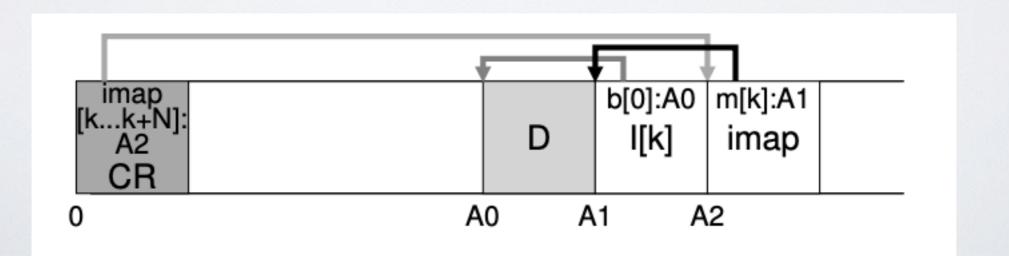
LFS - how to find the inode map?

The OS must have some fixed and known location on disk to begin a file lookup

- → The check-point region (CR) contains a pointer to the latest pieces of the inode map
- ✓ The CR is updated periodically (every 30 sec or so) to avoid degrading the performances



LFS - Crash recovery

The check-point region (CR) must be updated atomically

- → LFS keeps two CRs and writing a CR is done in 3 steps
 - I. writes out the header with a timestamp # I
 - 2. writes the body of the CR
 - 3. writes one last block with another timestamp #2
- √ Crash can be detected if timestamp # I is after #2
- ✓ LFS will always choose the most recent and valid CR
- ✓ All logs written after a successful CR update will be lost in case of a crash