

i) ~~write base~~ → control → i) write - log
(in memory log → disk)

ii) write head → a) read disk log block (base) (not previous therefore ok)

b) get pointer to log block

c) fill which blocks will in within

iii) install - base → disk log → actual log (cache → write)

iv) write head on place log.

* new layer

i) buffer

a) read binary block

b) find base & search allocated

ii) log

a) get buffer → free bit → write buffer

iii) check

a) get → search OS

find if already present in cache
the find empty make seg = 1 & return only OS

i) the input

ii) write through using offset

iii) get on disk words

iv) mostly

c) write - i) allocate a free word ~~from memory~~

ii) call spot to get - write block (memory)

d) block → copy details from in disk words
to in memory words

e) stream → free all block (direct + indirect)
using buffer

f) block → allocate block using buffer

g) write, read → take time & offset & who

directing output

client {
head select item; \Rightarrow kindle me \Rightarrow 28/11
also more [DIRSIZE] \Rightarrow 14-11.

1. $\{$
IDE \rightarrow D5
ideinit \rightarrow ide hardware = 1 setup if fixing hardware

2. ideinit \rightarrow wait for IDE disk to be ready

3. ideinit \Rightarrow start sending first buffer in queue

4. B.DIRTY the write else read

4. ideinit \Rightarrow 1) make current block valid, remove dirty bit & remove this block from queue

2) wake up process which slept by calling I/O

3) Start I/O for next buffer

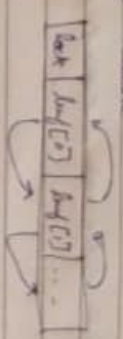
5. ideinit

1) BOUND should be 0. (because head calls after checking BOUND)

2) If first mode \rightarrow ideinit

3) else sleep

2nd layer \Rightarrow Buffer cache
DCL \rightarrow MRU



head \rightarrow MRU, prev \rightarrow LRU

1) legit \rightarrow If cache, select++ (because MRU)
else pick block with select = 0 & dirty = 0 (because LRU)
only gives block back

2) read \rightarrow call internal legit (get buffer) & then call ideinit return this buffer

3) write \rightarrow write to disk
1) set B.DIRTY = 1 call ideinit

2) buffer \rightarrow 1) remove buffer & add to head.

3rd layer \Rightarrow logging

in memory \rightarrow disk
(points to buffer cache) \rightarrow log \rightarrow file loc
block

1) initlog \rightarrow set pointers, recovery

2) begin of \Rightarrow sleep if committing or record and then do outstanding++ (10 for process now)
(3 process simultaneously)

3) end of \rightarrow outstanding-- if 0, commit
wake sleep in begin of
i = (4th process)