```
Reading and writing Disk blocks
4
       Reading a dik block
       Struct buf *
       breed (vint dev, wint sector)
         struct but *b;
         b=bget(dev.sector);
         if (!(b>flags 2B-valid))
          idera (b);
       3
       writing a disk block
       void bwrite (struct but *b)
       £ if ( b > flags & B_BUSY) ==0)
          panic (bunite);
          b-) flags 1 - B-DRTY;
          iderw (b);
     5 rm a
     log-write 29 write i
     log-write y inpodate
     log - write 28 blee
     log-write 4 ivpdate
     log-write 4 iupdate
    ( and also also booked tolled tiet ) good
```

algorithm read

get file table entry from user file descriptor; check file accessibility; set parameters in varies for user address, byte court, Ilo to user; get made from file table; lock mode; set byte offset in namea from file toble offset; while (count not satisfied) & convert the offset to disk block (algirthm broap) calculate offset into block, no of bytes to read; il (no of bytes to read & o) break; read block (algorithm breada it with read ahead, algorithm bread otherwise); copy data from cystem buffer to user add rell; update u area fields for file byte offset, read count, address to write into user space; release butter: unlock mode; update file table offset for next read; return (total no of bytes read);

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