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Pg-1

= 30×2° 6

FOR EAT 32, each entry in table is 4 byte.

So, space needed in memory

= 0 4 x (20x2°) byte

= 120x2° byte

= 120mB

If we use i-node instead of linked list allocation, treading will be foster. In linked list allocation, trondom-access ear is very slow, because of treading previous disk blocks before the trequired disk block. But, in i-node, we will bring it to memory. Chain will still be followed by but disk accessing for previous blocks will not be needed, the Chain will be followed only to get the address of target block

If we use i-node, data appeares in blocks will be in power of 2, armsing the less-efficiently problem of pewlian. Size in linked list allocation

2). As long as we need file, we need a whole system to manage it. Files being very important for percesstent and long term storage, file system is necessary to maintain it. A file system will keep track of how files are Mocated, how how they are protected til etc. file system will bring out the meaning of byte appear in disk. There are many variants of monaging files in disk. A file system can only specify which are in use. Otherwise, to bytes in disk will syma simply appear on Green wash tod the gove bages

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Symbolic link:

Suppose, a file in directory Y needs to be linked in directory X.

Symbolic link will system will create a file with type LINK in directory X. In this file, pathname to file that file in directory Y will be written. Dime, There will be directory entry in X fore - Ind LINK-type file.

Whenever user wents to access that files System underestands that the file is in symbolic link. It greats the pathname from the LINK-file and parise It. It then goes form some disk accesses to get the actual address of to targetted sharred file