## mkdir\_creat.C

int Make - dir (char & pathname)

First checks if the pathnome is in root directory or current running directory. Then breaks the Pathnome into Parent and child and loads the parents in ore information into a MINODE (Pip). Next we check that the parent minode is a Directory and use four search function to make sure the child doesn't already exist.

Finally, we call my mkdir (pip, child) and increment parents link count, update the time, and mark as dirty to flog iput to write the Parent minode back to the disk.

mymk dir (MINODE \* Pip, Char \* name)

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First allocate an INODE and disk block (into, balloc).

Then load the new ino number into an MINODE (mie) and

Set mip > INODE information to Directory specifics.

Then mark mip as difty and call igut to write back

new INODE to disk. Next we create and a directories

inside of directory we just created and write them back

to the disk.

Finally, call enter\_name (PiP, ino, name) to enter the dir to the Parent INODE with correct length and in the correct position.

enter \_ name (MINODE \* Pip, int myino, Char & myname) tui First We colculate the need length for our new entry (mynome). Next we step through all the direct blocks. For each block, we get the contents into a buffer and step to the end (lost entry) of the block. We keep mint ideallingth updating each iteration and by the end will plant the ideal length of the lost entry in the block, we calculate the remaining length of the block left to see if we have enough space to enter the name. If remaining length is greated than or equal to the need length of our entry, we trim previous last entry to its ideal length, advance 1 more time by that length to get to the new end, and insert our entry info. Then Put the block backfothe disk. It remaining length is less than need length of our entry, we must allocate a new block and attack it to the parent. Then we enter our enter as the first in the new block and put the block back to the disk. my Creat (MINODE \*Pip, Chor \* name) tri This Algorithm is exactly the same as mymbolic except the MR INODE'S mode is set to file type (OX84A4), links Count is only I and the size is 0. Also don't ine lorent's link count.

And No potar block is Miocotto, thus a and a a aren't created. Creat\_file (char \* Pathname) int This Algorithm is Exactly the same as most mokedic except INODE mode is set to leavon tiletype, size is set to 0, links countr's only 1. Also don't inc parent's link count.