

Project Documentation

Problems Faced:

- after writing stream function and trying to use it for the first time I faced an error (undefined reference for stream), and after ^{attempting} searching to find ^{the root of the problem} a solution, I discovered that ~~to Hfunc.c~~ where all the functions are implemented isn't accessed after calling make, so there was no implementation for them.

- figuring out how many blocks are in a file in the dmount function

- used a pointer ^{type with variable} in the first argument of stat ~~one of~~ the most time consuming problems I faced was with stream function where the makefile wasn't accessing ~~its~~ ^{stream's} implementation.

- dd needed more than 32bits in dinit implementation

(-) the problem of undefined reference also faced in dinit ~~after~~ ^{divingabit} into the problem it turns out that the ~~Hfunc.c~~ was not compiled with #FPIC because I forgot to put the so flags in the compilation in the Makefile

- dd ~~needed~~ ^{needed} 10 long just 64bits instead of 32bits

(-) then when testing dinit before ^{attempting} mounting a disk there was a problem with the naming where I had named

the experimental drive drive.0 where it should have been disk.0 and used 01 ^{high bearing} instead of 1, 2 ^{while calling dmount} which was

the reason why it gave zero address.

(-) when ~~in~~ executing the dshow function it printed zero as the number of blocks which means it exceeded the variable size, it turns out that I should've used (stat.st_blocks - 1) instead of without (-1) since it's 2bytes can only hold up to 65536, ^{first} I thought the filesize was larger than what I anticipated but after dividing it by the block size and getting 65536 ^{was sure it had something to do with the variable size and subtracting one was needed}

because BasePath in disk.h has disk as the final destination NOT DRIVE

PD(2)

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reason: (search) (temporary file I had)
~~was when attempting to execute~~ / tempexec; t.
 printed: error!!!

Solution: replace `LinkMultiFile` with `File` (it didn't
based on a shared obj file (you cannot compile a file
so rather than

When attempting to format ~~the~~^a disk it printed a segmentation fault ~~(error)~~, after using the old debugging method (placing printf statements) - I was able to deduce that ~~the (trimester) with~~ ^{call} ~~was causing the fault~~ ^{finish()} ~~was the cause~~.

~~I had forgotten to comment out the mount function which caused the fault, and left the mountin for initialisation of file descriptors, when testin a bit~~

After ~~that~~ ^{the} searching in ~~the~~ ^{my} I discovered that after the disk is formatted ~~instead~~ ^{instead} of making the

~~I have accidentally assigned the drive number of the disk descriptor to the disk system equal to the
drive number of the disk descriptor rendering my work completely ineffective ... ugsl~~

Later hexdumped disk. I don't know the (number of blocks, inode blocks, inodes, and ^{the} magic number) and inode block are correct. The super block was fine but.

printed the ~~a random number~~ ^{the inode block} on the left of the valid type field (03), which made me make sum of the sizes of the inodes which turns out to be (34) instead of (32).

Although the sum of the sizes of its field is 32 bytes.

It turns out that I had placed packed ^{at the beginning of} before the struct rather than the end (picked this wrong habit from somewhere). ^{properly solved} ~~the~~ ^{the} ~~index~~ ^{index} the

DISK IS FORMATTER 😊

(Note) the directory didn't occupy any blocks so I ^{didn't} include it in the size variable.

when attempting to format in `format` it printed a negative number as the number of blocks and the number of inode blocks was the number of blocks - so I accidentally placed a corner at the string in the first line (outside the "" marks) which caused this.

Struct trace to debug

another problem with `show` is that it didn't print info about the mode we had cause the loop in `search_dir` function didn't break out of the while loop when the `(mode & 07)` condition is met, as it only broke out of the inner one, so I set a 0 to the size of inode blocks so the condition is satisfied no more.

shared header errors

(13)
After finishing show, mounts mounts I
faced an error of multiple definition of
DiskDescriptor. caused it once public in f.h
and one extern in ~~file~~ system removed the extern
and replaced keyword public with extern in ~~file~~ system.
And while I was writing the inode functions, I faced
an error that no output given when I run ~~execute.com~~
so I straved it and discovered that I ~~had~~ had changed
the path of "drives" folder without changing the base path.
after that while attempting to run ~~execute.com~~
after creating multiple inodes it gave a stack smashing error
I traced it and discovered that it was from the ~~for loop~~
write command in the for loop of the ^{reserve in} function.

I faced a moment when trying to compile
after writing show I got at least 5 pages worth
of errors ~~reason~~ ^{reason} ~~for the program~~ ^{for the program} if (:))

~ (add &)
p2 → name should be in char (in comp function in main)
forgot to put pral ~~name~~ (in g) rather than ~~length~~ ^{length}
(I copied ~~trunk~~ ~~name~~ ~~and~~ ~~not~~ ~~trunk~~ ~~it~~ ~~that~~ ~~was~~ ~~my~~)
the 20 page errors (mostly module not found errors)