Operativsystemer of multiprogrammering
Handin 4

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Contents

1 Overall assumptions

We've made the following assumptions, on which our implementation depends on:

- There can't be more than one file system at a time on the disk, in other words we avoid partitions.
- We don't perform any consistency checks of the file system, as we assume that it's always consistent.
- We assume we won't have to implement functionality to search through directories, as the buenos kernel doesn't support the use of different directories. Furthermore there aren't any system calls to create directories.

2 Design decisions

We've removed the patting of the fat32 filesystem volume name, to make it makes more sense.

3 Important observations

Unfortunately we didn't make it to implement some of the functions. The system can however mount a fat32 file system and unmount it. We've made an effort to try to implement the syscall_open function, but something was wrong with the cluster addressing...

4 List of changes

- buenos/proc/syscall.c: System calls trivially implemented.
- buenos/fs/filesystems.c: Implemented the slim32 system.
- buenos/fs/module.mk: Added the slim32.c file to the modules.
- buenos/fs/slim32.c, buenos/fs/slim32.h: Tried to implement the file system.
- buenos/yams.conf: Disk section added (commented out in the handin).
- buenos/compile: Added tests/fs_open. Now also writes new test file to the store.file hard drive.
- buenos/tests/fs_open.c: Test file for the syscall_open file.

5 Time spent

We have approximately spent 17-20 hours per person.